Pflügers Archiv

European Journal of Physiology

No. 4 [illegible] Last issue of this volume
[illegible] Indexes

[illegible]sville, VA
[illegible] Haven, CT
[illegible]NY
[illegible] (Beer)
[illegible]rlangen
[illegible]
[illegible]

Springer International

[illegible]

November

Pflügers Archiv

European Journal of Physiology

The Journal publishes research reports likely to advance physiology in the widest sense, i.e. as the science of living things. Pathophysiological papers will also be considered, provided they serve the purposes of physiology as a basic science. This means that their subject matter must clearly convey a message of physiological interest; clinical papers are therefore excluded.
Purely methodological papers will be published in a special section **Instruments and Techniques.**
A further section **Letters and Notes** is published at the end of each issue of the Journal. Manuscripts must not exceed 1000 words and may contain not more than two figures in the case of Notes (no figures in Letters); they should be submitted in duplicate to the Subject Editor. Letters will refer to an article recently published in this Journal. When a Letter is accepted, a copy is sent to the author of the article referred to, who will have the opportunity to write a reply for simultaneous publication.
Letters and Notes will be reviewed by a Field Editor and may be edited and/or shortened. The accepted manuscript will be returned to the author for typing a camera-ready copy (see guidelines in the **Instructions to Authors).** A Letter or Note, once submitted in camera-ready form, will be placed in the next issue due; this means it can appear in print within 3 to 6 weeks.
The Editors of **Pflügers Archiv** endorse the "Recommendations from the Declaration of Helsinki" and the "Guiding Principles in the Care and Use of Animals". All investigations involving man and all animal experiments reported in this Journal must have been conducted in conformity with these principles.
Editors are instructed to refuse papers in which evidence of the adherence to these principles is not apparent. Differences of opinion will be adjudicated by the Editorial Board of this Journal.

Manuscripts in triplicate should be sent to the most appropriate Subject Editor
(see inside title page for addresses)

Copyright
It is a fundamental condition that submitted manuscripts have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature, and translations.
Photographic reproduction, microform, or any other reproduction of text, figures, or tables from this journal is prohibited without permission obtained from the publisher.
The use of general descriptive names, trade names, trade marks, etc., in this publication, even if the former are not specifically identified, is not to be interpreted that such names are exempt from the relevant protective laws and regulations and may accordingly be used freely by anyone.

Special Regulations for the U.S.A.
The Article Fee Code on the first page of an article in this journal indicates the copyright owner's consent that in the U.S.A. copies may be made for personal or internal use, provided the stated fee for copying beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid through the **Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA.** If a code does not appear copies of the article may be made without charge, provided permission is obtained from the publisher.
The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

Subscription Information
Volumes 390–392 (4 issues each) will appear in 1981.
The price of each volume is DM 330.00 or $194.00.
Prices for back-volumes are available on request. In addition, we also offer microform editions in 16 mm and 35 mm microfilm and microfiche.
Correspondence concerning subscriptions should be addressed to the publisher.
Changes of Address: Allow six weeks for all changes to become effective. All communications should include both old and new addresses (with Zip Codes) and should be accompanied by a mailing label from a recent issue.

North America. Annual subscription rate: $598.00 including postage and handling. Subscriptions are entered with prepayment only. Orders should be addressed to: Springer-Verlag New York Inc., Journal Sales Department, 44 Hartz Way, Secaucus, N.J., 07094, USA, Tel. (201) 348-4033, Telex 0023125994.

All Other Countries. Annual subscription rate: DM 990.00, plus postage and handling. Airmail delivery on request only. For Japan, postage (Surface Airmail Lifted) and handling is DM 114.00. Orders can either be placed with your bookdealer or sent directly to: Springer-Verlag, Heidelberger Platz 3, D-1000 Berlin 33, Tel. (030) 8207-1, Telex 01-83319.

Offices:
Springer-Verlag, Heidelberger Platz 3, D-1000 Berlin 33, Tel. (030) 8207-1, Telex 01-83319.
Springer-Verlag, Journal Production Department, Postfach 105280, D-6900 Heidelberg 1, Tel. (06221) 487-331, Telex 04-61690.
Springer-Verlag New York Inc., 175 Fifth Avenue, New York, N.Y., 10010, USA, Tel. (212) 477-820, Telex 0023232235.

Responsible for Advertisements:
E. Lückermann, Kurfürstendamm 237, D-1000 Berlin 15, Tel. (030) 8821031, Telex 01-85411

Das Heft enthält eine Beilage des Springer-Verlages Berlin, Heidelberg, New York.

Printed in Germany by Wiesbadener Graphische Betriebe GmbH, Wiesbaden

© Springer-Verlag GmbH & Co. KG Berlin Heidelberg 1981

Springer International

Pflügers Archiv

European Journal of Physiology

Heart, circulation, respiration and blood; environmental and exercise physiology (A)

E. Gerlach
Physiologisches Institut
Universität München
Pettenkoferstrasse 12
D-8000 München 2

Transport processes, metabolism and endocrinology; kidney, gastrointestinal tract, and exocrine glands (B)

P. Deetjen
Physiologisches Institut
Universität Innsbruck
Fritz-Pregl-Strasse 3
A-6010 Innsbruck

Excitable tissues and central nervous physiology (C)

O. Pompeiano
Istituto di Fisiologia
Università di Pisa
Via S. Zeno 31
I-56100 Pisa

Springer International

Instructions for Authors

1. Manuscripts must be written in English. Authors not familiar with English are advised to seek the help of an English-speaking colleague. Correct language is the responsibility of the Author.

2. Manuscripts must be submitted in triplicate to the most appropriate Subject Editor.

3. Manuscripts should be typed on one side of the paper only in double-line spacing with wide margins. The desired position of figures and tables should be marked in the margin. Form and content should be checked carefully to exclude the need for correction in proof. A charge will be made for changes introduced after the text has been set in type. As a rule papers should not exceed 8 printed pages. This equals about 24 typewritten pages DIN A 4 with 33 lines per page and 65 strokes per line. If an article is illustrated, the space occupied by the figures must be allowed for in the length of the text.
Each article must be complete in itself, i.e. comprehensible without detailed knowledge of a previous or subsequent publication of the same author(s).

4. The **title page** contains:

a) The title. For bibliographic reasons, double titles are undesirable particularly if the authors of the main and subsidiary parts are different.
b) The names of authors and of the institution (the latter can appear in the local language). If there are several institutions, please make affiliation clear. Give full address(es).
c) The running title (page heading) which should not exceed 67 strokes, including spaces.
d) Insert "Send offprint requests to ... (name of author) at the above address."

5. Abstract and **Key words:**

a) The manuscript must be preceded by an abstract stating the main points (not more than 200 words).
b) Below the abstract up to 8 key words are to be given for subject indexing. Key words should be taken from the Index Medicus or, failing this, composed on similar lines.

6. Small print. Historical reviews, materials and methods, mathematical derivations and other secondary matter should be marked for small print. This is not done to save money — it costs more to set up — but to improve presentation.

7. Footnotes, other than those referring to the title heading, should be numbered consecutively.

8. The list of **references** should include only works referred to in the text. They should be cited as follows:

Lee JM, Hill RM (1972) Responses of midbrain cells to blur. Pflügers Arch 336:213–216

Hille B (1971) Voltage clamp studies on myelinated nerve fibres. In: Adelman WJ (ed) Biophysics and physiology of excitable membranes. Chapter 12. Van Nostrand Reinhold, New York, p 242

References should be listed at the end of the paper in alphabetical order under the first author's name. If an author who is cited also coauthored additional papers that are cited, and if he is the first author listed, the order should be as follows:
First author and one coauthor – list first alphabetically by coauthor, and then chronologically.
First author and more than one coauthor – list chronologically (not alphabetically by the second author), because only the first author's name and the word et al. followed by the year of publication will be used in the text.
In the event that more than one paper by the same author or team of authors was published in the same year, the letters a, b, c, etc., should follow the year – e.g. Schwartz (1971a) – in both the text and the reference list.

Personal communications should be cited only exceptionally and preferably documented by a written statement, e.g.: Müller H: Personal communication, letter of October 31, 1972. This document need not be submitted to the journal but must be available in the file of the author(s). Oral communications should be mentioned in acknowledgements.
A reference cited as "in press" should include "accepted by" with the name of the journal. It is not enough to say a paper is "in preparation".

9. Legends. The figure legend should be sufficient to allow each figure to be understood without reference to the text. Each figure should have a short title followed by a concise description. All abbreviations and symbols appearing in the figure must be explained in the legend. Information given in the legends should not be repeated in the text.

10. Figures should not be regarded as mere illustrations but restricted to the minimum needed to clarify the text. Previously published figures cannot be accepted. The same data should not be presented in both graph and table form. As a rule, requests for color reproductions cannot be approved unless the author(s) bear the costs.
All figures, whether photographs, graphs, or diagrams, should be numbered consecutively throughout and submitted on separate sheets. The figures should not extend beyond the print area of 170 × 220 mm or the column area of 80 × 220 mm. Several figures can be grouped into a plate on one page.

Line Drawings. Please submit good-quality glossy prints in the desired final size. The inscriptions should be clearly legible. Letters 2 mm high are recommended.

Halftone Illustrations. Please submit well-contrasted photographic prints, trimmed at right angles and in the desired final size. Inscriptions should be about 3 mm high.

11. Generic names of drugs are preferred; if trade names are used, the generic name should be stated in full at the first mention.

12. It is recommended to use the **Système International d'Unités (SI)** for the numerical expression of the results of measurements. In cases in which the SI unit is different from the conventional one, the conventional unit should be added in parentheses; e.g. 12 kPa (90 mm Hg). Concentrations may be expressed as amount of substance per unit of volume ($mol \cdot l^{-1}$ or subdivisions thereof) or as mass per unit of volume ($g \cdot l^{-1}$ or subdivision thereof). Compound units should be written with a mid point (e.g. $N \cdot m$) and with (positive or negative) exponents (e.g. $N \cdot m^{-5} \cdot s^{-1}$). In unambiguous cases the solidus is an acceptable alternative (e.g. $cm \cdot s^{-1}$ = cm/s). The decimal sign between digits should be indicated by a full stop. Numbers with five or more significant figures should be separated by spaces into groups of three, starting from the decimal sign (e.g. 87654.93215). When there are only four figures a space is not needed. There should be a space between the numerical value and the unit (e.g. $1240\ J \cdot kg^{-1} \cdot K^{-1}$). [See Pflügers Arch (1977) 368:1–2.]

13. Letters and Notes. Manuscripts must not exceed 1000 words and may contain not more than two figures in the case of Notes (no figures in letters); they should be submitted in duplicate to the Subject Editor. To ensure rapid publication, the Subject Editor will enclose with the acceptance special stationery and instructions for producing a camera-ready copy. A Letter or Note, once submitted in camera-ready form, will be placed in the next issue due; this means it can appear in print within 3 to 6 weeks.

14. Offprints. Fifty (50) offprints of each paper are supplied free of charge. Additional offprints are available in lots of 100, provided the order is received with corrected proofs.

Pflügers Archiv (1981) 390:301–332

Pflügers Archiv
European Journal of Physiology
© Springer-Verlag 1981

Cumulative Author Index of Volumes 371 (1977)–390 (1981)

Abboud, E.H., see Bikhazi, A.B., et al. 386:245
Abe, Y., see Yasuda, M., et al. 385:111
Ablad, B., see Koop, U., et al. 387:107
Aceves, J.
Pumped Movements of Sodium and Potassium Ions in the Isolated Epithelium of the Frog Skin 371:201
Aceves, J.
Sodium Pump Stimulation by Oxytocin and Cyclic AMP in the Isolated Epithelium of the Frog Skin 371:211
Achazi, R.K.
Phosphorylation of Molluscan Paramyosin 379:197
Acker, H.
Measurements of Potassium Changes in the Cat Carotid Body under Hypoxia and Hypercapnia 375:229
Acker, H., see Lis, K., et al. 381:289
Acker, H., see Weigelt, H., et al. 388:137
Ackermann, U.
Control of Renal Function in Isovolemic Hemodilution or in Vagotomized, Infused Rats 386:111
Adler, A.M., see Postnov, Yu.V., et al. 371:263
Agoston, S., see Folgering, H., et al. 379:181
Agulian, S.K., see Bikhazi, A.B., et al. 386:245
Ahokas, R.A., see Blatteis, C.M., et al. 389:177
Ahrén, B., Lundquist, I.
Adrenalectomy and Chemical Sympathectomy by 6-Hydroxydopamine. Effects on Basal and Stimulated Insulin Secretion 390:17
Ailes, N.B., see Thomas, D.P., et al. 385:65
Aisenbrey, G.A., see Linas, S.L., et al. 384:135
Akaike, N.
Development of Pump Electrogenesis in Hypokalaemic Rat Muscle 379:215
Albrecht, K.H., see Gaehtgens, P., et al. 380:115
Albus, H., Groot, J.A., Heukelon, J.S. van
Effects of Glucose and Ouabain on Transepithelial Electrical Resistance and Cell Volume in Stripped and Unstripped Goldfish Intestine 383:55
Albus, H., see Groot, J.A., et al. 379:1
Al-Hassani, M., see Davison, J.S., et al. 377:43
Altmann, D.W., see Weiss, T.F., et al. 373:77
Alvarado, F., Brot-Laroche, E., L'Herminier, M., Murer, H., Stange, G.
The Effect of Harmaline on Intestinal Sodium Transport and on Sodium-Dependent d-Glucose Transport in Brush-Border Membrane Vesicles from Rabbit Jejunum 382:35
Alvarado, F., see Lherminier, M. 389:155
Alvarez, L., see Parisi, M., et al. 383:131
Alvur, M., see Bor, N.M., et al. 386:277
Amann, B., see Scharrer, E. 384:279
Amendt, K., Czachurski, J., Dembowsky, K., Seller, H.
Neurones within the "Chemosensitive Area" on the Ventral Surface of the Brainstem which Project to the Intermediolateral Column 375:289
Amery, A.K., see Fagard, R.H., et al. 374:199
Amorena, C., see Villamil, M.F., et al. 390:260
Anagnostopoulos, T., Planelles, G.
Organic Anion Permeation at the Proximal Tubule of Necturus. An Electrophysiological Study of the Peritubular Membrane 381:231
Anastasijević, R., Vučo, J.
The Relative Dependence of the Activity of Renshaw Cells on Recurrent Pathways During Contraction of the Triceps Muscle 377:255
Andersen, P., Kroese, A.J.
Capillary Supply in Soleus and Gastrocnemius Muscles of Man 375:245
Anderson, J.H., see Precht, W. 382:51
Anderson, R.J., see Linas, S.L., et al. 384:135
Andrews, P.L.R., Fussey, I.V., Scratcherd, T.
The Spontaneous Discharge in Abdominal Vagal Efferents in the Dog and Ferret 387:55
Annat, G., see Grandjean, B., et al. 373:161
Aquin, L., Lechner, A.J., Sillau, A.H., Banchero, N.
Analysis of the Shape Changes of Muscle Fiber Cross Sections in Guinea Pigs Raised at 22° C and 5° C 385:223
Aquin, L., see Sillau, A.H., et al. 386:39
Arabin, G., see Rautenberg, W., et al. 384:253
Araneda, G., see Karim, F., et al. 383:79
Arevalo, G., see Arruda, J.A.L., et al. 376:193
Arlock, P.
The Influence of the Surface Electrogram on the Rising Phase of the Mammalian Cardiac Action Potential 380:139
Arnaud, M.J., see Ravussin, E., et al. 382:197
Arnauld, E., Czernichow, P., Fumoux, F., Vincent, J.-D.
The Effects of Hypotension and Hypovolaemia on the Liberation of Vasopressin during Haemorrhage in the Unanaesthetized Monkey *(Macaca mulatta)* 371:193
Arndt, J.O., see Samodelov, L.F., et al. 383:47
Arruda, J.A.L.
Calcium Inhibits Urinary Acidification: Effect of the Ionophore A23187 on the Turtle Bladder 381:107
Arruda, J.A.L., Nascimento, L., Arevalo, G., Baranowski, R.L., Cubria, A., Carrasquillo, T., Westenfelder, C., Kurtzman, N.A.
Bicarbonate Reabsorption in Chronic Renal Failure Studies in Man and the Rat 376:193
Aschoff, J., see Tokura, H. 376:241
Assimacopoulos-Jeannet, F., see Seydoux, J., et al. 390:1
Assmann, R., Henrich, H.
A Video-Angiometer for Simultaneous and Continuous Measurement of Inner and Outer Vessel Diameters 376:263
Assmann, R., see Henrich, H., et al. 375:153
Assumpçao, J.A., see Bernardi, N., et al. 372:203
Assumpçao, J.A., see Davidson, N., et al. 379:149
Attinger, E.O., see Milton Adams, J., et al. 374:39
Attinger, F.M., see Milton Adams, J., et al. 374:39
Attwell, D., Cohen, I., Eisner, D., Ohba, M., Ojeda, C.
The Steady State TTX-Sensitive ("Window") Sodium Current in Cardiac Purkinje Fibres 379:137

Attwell, D., Dubois, J.-M., Ojeda, C.
Fully Activated Potassium Current-Voltage Relationship in the Ranvier Node. Discrepancy between the Results of Two Methods of Analysis 384:49
Auer, L.
A Method for Continuous Monitoring of Pial Vessel Diameter Changes and Its Value for Dynamic Studies of the Regulation for Cerebral Circulation. A Preliminary Report 373:195
Aurell, M., see Koop, U., et al. 387:107
Aussedat, J., see Rossi, A., et al. 390:5
Ayuso-Parrilla, M.S., see Pérez-Diaz, J., et al. 371:19
Azuma, T., see Ohhashi, T., et al. 375:183
Azuma, T., see Sakaguchi, M., et al. 378:263
Azuma, T., see Sakaguchi, M., et al. 388:261

Bade, H., Braun, H.A., Hensel, H.
Parameters of the Static Burst Discharge of Lingual Cold Receptors in the Cat 382:1
Bade, H., see Braun, H.A., et al. 386:1
Baldamus, C.A., see Galaske, R.G., et al. 375:269
Banchero, N., see Aquin, L., et al. 385:223
Banchero, N., see Bui, M. Van 385:155
Banchero, N., see Ripoll, E., et al. 380:153
Banchero, N., see Sillau, A.H., et al. 386:39
Banet, M.
Fever and Survival in the Rat. The Effect of Enhancing Fever 381:35
Bankir, L., see Rouffignac, C. de, et al. 390:138
Baranowski, R.L., see Arruda, J.A.L., et al. 376:193
Baranowski, R.L., see Westenfelder, C., et al. 386:161
Barendsen, G.J., see Lubbers, J., et al. 382:241
Bar-Ilan, A., Marder, J.
Acid Base Status in Unanesthetized, Unrestrained Guinea Pigs 384:93
Barletta, A., see Goglia, F., et al. 390:120
Barnea, A., see Warberg, J., et al. 385:79
Barr, L., Dewey, M.M., Berger, W.
Action Potentials Can Propagate along Small Strands of Smoth Muscle 380:165
Baskerville, F.B., see Huf, E.G., et al. 385:243
Bass, A., Gutmann, E., Hanzlíková, V., Teissinger, J.
Effects of Ischaemia on Enzyme-Activities in the Soleus Muscle of the Rat 379:203
Bassenge, E., see Holtz, J., et al. 372:187
Bassenge, E., see Holtz, J., et al. 377:177
Bassenge, E., see Restorff, W. von, et al. 372:181
Bauduin, H., Stock, C., Launay, J.F., Vincent, D., Potvliege, P., Grenier, J.F.
On the Secretagogue Effect of Dibutyryl Cyclic AMP in the Rat Exocrine Pancreas 372:69
Bauer, C., see Jelkmann, W. 372:149
Bauer, C., see Jelkmann, W. 375:189
Bauer, C., see Jelkmann, W. 377:75
Bauer, C., see Jelkmann, W. 389:61
Bauer, C., see Weingarten, J.P., et al. 377:135
Bauer, R., see Rick, R., et al. 385:1
Bauer, R.D., Busse, R., Schabert, A., Summa, Y., Wetterer, E.
Separate Determination of the Pulsatile Elastic and Viscous Forces Developed in the Arterial Wall in vivo 380:221
Bauer, R.D., see Busse, R., et al. 390:113
Bauer, R.D., see Schabert, A., et al. 385:239
Baumann, G., see Schrader, J., et al. 372:29
Baumann, K., see Cojocel, C., et al. 390:211
Baumgarten, C.M., see Macchia, D.D. 382:193
Bäuml, M., see Lutz, J., et al. 376:1
Bayer, H. v., Haeberle, D.A., Liew, J.B. van, Hare, D.
Glomerular Tubular Balance of Renal, d-Glucose Transport During Hyperglucemia. Clearance and Micropuncture Studies on its Characterisation at Saturated Transport Conditions 384:39
Bayerdörffer, E., see Eveloff, J., et al. 389:263

Bech, C., Rautenberg, W., May, B., Johansen, K.
Effect of Spinal Cord Temperature on Carotid Blood Flow in the Pekin Duck 385:269
Beckers, M., see Greven, J., et al. 384:61
Beckmann, G., see Cojocel, C., et al. 390:211
Beckmann, U., see Risch, W.D. et al. 374:115
Beer, G., see Gutsche, H.-U., et al. 386:11
Behn, C., Lübbemeier, A., Weskamp, P.
Chlorotetracycline Induces Calcium Mediated Shape Changes in Human Erythrocytes. Is Ca Asymmetrically Distributed in the Red Cell Membrane? 372:259
Bekdik, C.F., see Bor, N.M., et al. 386:277
Belardinelli, L., Rubio, R., Berne, R.M.
Blockade of Ca^{2+} Dependent Rat Atrial Slow Action Potentials by Adenosine and Lanthanum 380:19
Belcari, P., Francesconi, A., Maioli, C., Strata, P.
Spontaneous Activity of the Purkinje Cells in the Pigeon Cerebellum 371:147
Belcastro, A.N., see Bonen, A., et al. 380:205
Bell, F.R., see Webber, D.E., et al. 384:65
Belmonte, C., see Gallego, R. 380:53
Benedek, G., see Obál, F., Jr., et al. 382:249
Benedek, G., see Obál, F., Jr., et al. 387:183
Benhamou, J.-P., see Lebrec, D., et al. 387:67
Bennekers, J.H., see Brunsting, J.R., et al. 381:293
Bennett, J.W., see Hales, J.R.S., et al. 372:157
Bennett, J.W., see Hales, J.R.S., et al. 376:87
Bennett, J.W., see Hales, J.R.S., et al. 378:55
Berdina, N.A., Kots, J.M., Rodionov, I.M., Tkhorevsky, V.I., Vinogradova, O.L., Vishnevetskaya, M.A.
Cholinergic and Adrenergic Influences Upon Cat Skeletal Muscle Performance Induced by Stimulation of the Anterior Hypothalamus 378:149
Bercken, J. van den, see Kroese, A.B.A., et al. 375:167
Berdina, N.A., Rodionov, I.M.
The Content of Cyclic Nucleotides (3′,5′-cGMP and 3′,5′-cAMP) in Cat Skeletal Muscle During Sympathetic Cholinergic Vasodilatation 383:245
Berg, R.G.M. ten, Jong, W. de
Time Course of the Enhanced Blood Pressure Response to Reinduction of Renal Artery Stenosis in Unclipped Renal Hypertensive Rats 380:133
Berg, J.W. van den, see Lubbers, J., et al. 382:241
Berg, R.G.M. ten, Jong, W. de
Increase in Plasma Renin Activity, Water Intake and Blood Pressure Following Application and Reapplication of a Renal Artery Clip 385:211
Bergamini, E., see Villa-Moruzzi, E., et al. 379:301
Berger, K., see Berger, W., et al. 374:205
Berger, W., Berger, K., Berndl, J., Giese, K.
Interaction of Peripheral and Central Respiratory Drives in Cats. I. Effects of Sodium Cyanide as a Peripheral Chemoreceptor Stimulus at Different Levels of CSF pH 374:205
Berger, W., see Barr, L., et al. 380:165
Berger, W., see Giese, K., et al. 374:211
Berkenbosch, A., see Olievier, C.N., et al. 373:269
Berl, T., see Linas, S.L., et al. 384:135
Berman, A., see Wolfenson, D., et al. 390:86
Bernard, Ch.
Electrical Activity of Isolated Semicircular Canal in the Frog. Action of Streptomycin 388:93
Bernardi, N., Assumpçao, J.A., Dacke, C.G., Davidson, N.
Calcium-Dependent Increase in Efflux of [1-^{3}H] Taurine from the Superfused Rat Cerebellar Cortex in vivo 372:203
Bernardi, N., see Davidson, N., et al. 379:149
Bernards, J.A., see Smolders, F.D.J., et al. 372:289
Bernards, J.A., see Verstappen, F.T.J., et al. 374:125
Bernards, J.A., see Verstappen, F.T.J., et al. 374:131
Berndt, J., see Berger, W., et al. 374:205
Berndt, J., see Giese, K., et al. 374:211
Berne, R.M., see Belardinelli, L., et al. 380:19

Berner, W., see Lücke, H., et al. 373:243
Bernink, P.J.L.M., see Lubbers, J., et al. 382:241
Berson, G., Samuel, J.-L., Swynghedauw, B.
A Comparative Study of the Cardiac Troponin Inhibitory Factor (TNI) from Mammalians 374:277
Besl, E., see Schnell, K.F., et al. 375:87
Better, O.S., see Linas, S.L., et al. 384:135
Betz, E., Csornai, M.
Action and Interaction of Perivascular H^+, K^+ and Ca^{2+} on Pial Arteries 374:67
Betz, E., see Knehr, H.E., et al. 387:73
Beume, R., Pott, L.
Dual Effect of External Calcium on the Frequency of Miniature Synaptic Potentials in Frog Sympathetic Ganglion Cells 376:21
Bhagat, B., see Rao, P.S. 374:105
Bikhazi, A.B., Abboud, E.H., Agulian, S.K., Nassar, C.F.
Agglutination Kinetics of Normal and Diabetic Adult Rat Hepatocytes 386:245
Binkhorst, R.A., see Herwaarden, C.L.A. van, et al. 385:21
Binkhorst, R.A., see Hulsbosch, M.A.M., et al. 378:85
Birch, F.M., see Westenfelder, C., et al. 386:161
Birkenfeld, G., see Schad, H., et al. 378:121
Birnbaum, M., Reis, M.A., Shainberg, A.
Role of Calcium in the Regulation of Acetylcholine Receptor Synthesis in Cultured Muscle Cells 385:37
Birnberger, K.L., see Dengler, R., et al. 380:145
Bittar, E.E., see Schultz, R. 374:31
Bittar, E.E., see Schultz, R. 374:219
Bittel, J., see Roussel, B. 382:225
Blair, J.A., see Lucas, M.L., et al. 385:137
Blangé, T., see Stienen, G.J., et al. 376:97
Blantz, R.C., see Tucker, B.J. 388:211
Blanuša, M., Bogunović, M., Matković, V.
Kinetic Parameters of Calcium Metabolism and Femur Morphometry in Rats. I. Influence of Sex and Age 375:233
Blanuša, M., Matković, V., Kostial, K.
Kinetic Parameters of Calcium Metabolism and Femur Morphometry in Rats. II. Influence of Ovariectomy and Dietary Calcium 375:239
Blatteis, C.M., Mashburn, T.A., Jr., Ahokas, R.A.
Fever and Trace Metal Changes in Endotoxin-Challenged Neonates 389:177
Bliss, T.V.P., Rosenberg, M.É.
Activity-Dependent Changes in Conduction Velocity in the Olfactory Nerve of the Tortoise 381:209
Blum, J.W., see Hunziker, W., et al. 371:185
Blumgart, L.H., see Mathie, R.T., et al. 386:77
Bogaard, J.M., see Zwart, A., et al. 375:213
Bogaert, P.-P. van, Vereecke, J.S., Carmeliet, E.E.
The Effect of Raised pH on Pacemaker Activity and Ionic Currents in Cardiac Purkinje Fibers 375:45
Bogunović, M., see Blanuša, M., et al. 375:233
Boink, A.B.T.J., Ruigrok, T.J.C., Moes, D. de, Maas, A.H.J., Zimmerman, A.N.E.
The Effect of Hypotherma on the Occurrence of the Calcium Paradox 385:105
Boisvert, D.P.J., see Gregory, P.C., et al. 386:187
Boland, R.L., see Locatto, M.E., et al. 389:81
Boldt, M., Harbig, K., Weidemann, G., Lübbers, D.W.
A Sensitive Dual Wavelength Microspectrophotometer for the Measurement of Tissue Fluorescence and Reflectance 385:167
Bolitho Donaldson, S.K., Hermansen, L.
Differential, Direct Effects of H^+ on Ca^{2+}-Activated Force of Skinned Fibers from the Soleus, Cardiac and Adductor Magnus Muscles of Rabbits 376:55
Bollinger, A., Jäger, K., Roten, A., Timeus, Ch., Mahler, F.
Diffusion, Pericapillary Distribution and Clearance of Na-Fluorescein in the Human Nailfold 382:137
Bonaventure, N., Wioland, N., Roussel, G.
Effects of some Amino Acids (GABA, Glycine, Taurine) and of Their Antagonists (Picrotoxin, Strychnine) on Spatial and Temporal F
385:51
Bonen, A., Campbell, C.J., Kirby, R.L., Belcastro, A.N.
A Multiple Regression Model for Blood Lactate Removal in Man 380:205
Bonjour, J.-Ph., see Danisi, G., et al. 388:227
Bonjour, J.-P., see Mühlbauer, R.C., et al. 388:185
Bonjour, J.-P., see Stoll, R., et al. 380:47
Bonvallet, R., Ildefonse, M., Roche, M., Rougier, O.
Inotropic Effects of Potassium Rich Solutions on Frog Cardiac Muscle 390:237
Boom, H.B.K., see Schiereck, P. 374:135
Boom, H.B.K., see Schiereck, P. 379:251
Booth, F.W.
Inability of Myoglobin to Increase in Dystrophic Skeletal Muscle during Daily Exercise 373:175
Bor, N.M., Alvur, M., Ercan, M.T., Öner, G., Bekdik, C.F.
Pancreatic Blood Fow in Hemorrhagic Shock 386:277
Borgdorff, P., van den Horn, G.J.
The Effect of Common Carotid Artery Occlusion on Blood Pressure in the Barodenervated Cat 385:193
Borgia, J.F., Horvath, S.M.
Transcutaneous, Noninvasive P_{O_2} Monitoring in Adults During Exercise and Hypoxemia 377:143
Borne, P. van de, see Spaan, J.A.E., et al. 372:279
Bornschein, H., see Trappl, R., et al. 372:165
Boschero, A.C., see Kawazu, S., et al. 375:197
Boschero, A.C., see Malaisse, W.J., et al. 373:237
Bourgoignie, J.J., see Pennell, J.P. 389:131
Boyes, G., Johnston, I.
Muscle Fibre Composition of Rat *vastus intermedius* Following Immobilisation at Different Muscle Lengths 381:195
Boyett, M.R.
An Analysis of the Effect of the Rate of Stimulation and Adrenaline on the Duration of the Cardiac Action Potential 377:155
Boyett, M.R., Coray, A., McGuigan, J.A.S.
Cow Ventricular Muscle. I. The Effect of the Extracellular Potassium Concentrtion on the Current-Voltage Relationship. II. Evidence for a Time-Dependent Outward Current 389:37
Boyle, R., Pompeiano, O.
Reciprocal Responses to Tilt of Neurones Within Both Fore- and Hindlimb Regions of Deiters' Nucleus 381:179
Braasch, D.
Red Cell Flexibility, Electrical Resistance and Viscosity of Blood Flowing Through Small Glass Capillaries 383:229
Brading, A.F., see Widdicombe, J.H. 386:35
Brânişteanu, D.D., see Haulică, I.D., et al. 373:15
Braun, H.A., Bade, H., Hensel, H.
Static and Dynamic Discharge Patterns of Bursting Cold Fibers Related to Hypothetical Receptor Mechanisms 386:1
Braun, H.A., see Bade, H., et al. 382:1
Bray, J.J., see Mills, R.G. 383:67
Brechtelsbauer, H., see Schad, H. 371:25
Brechtelsbauer, H., see Schad, H. 378:127
Brechtelsbauer, H., see Schad, H., et al. 378:121
Breepoel, P.M., Kreuzer, F., Hazevoet, M.
Interaction of Organic Phosphates with Bovine Hemoglobin. I. Oxylabile and Phosphate-Labile Proton Binding 389:219
Breepoel, P.M., Kreuzer, F., Hazevoet, M.
Interaction of Organic Phosphates with Bovine Hemoglobin. II. Oxygen Binding Equilibria of Newborn and Adult Hemoglobin 389:227
Brendel, U., Györy, A.Z., Kinne, R.
Studies on the Binding Characteristics of Antimycin A and Albumin in Relation to the Inhibitor Activity of the Complex on Rat Proximal Tubular Sodium Transport 372:77
Bres, M., Hatzfeld, C.
Three-Gas Diffusion–Experimental and Theoretical Study 371:227
Brice, J.E.H., see Thompson, J., et al. 380:197

Brink, H.M., Siegers, J.F.G.
Instantaneous Measurement of Glomerular Filtration Rate in the Isolated Perfused Rat Kidney 383:71
Broekhuyzen, P., see Molenaar, J., et al. 383:173
Brommundt, G., see Einwächter, H.M. 375:69
Brooks, G.A., see Patch, L.D. 386:215
Brot-Laroche, E., see Alvarado, F., et al. 382:35
Brown, J.A., Jackson, B.A., Oliver, J.A., Henderson, I.W.
Single Nephron Filtration Rates (SNGFR) in the Trout, *Salmo gairdneri*. Validation of the Use of Ferrocyanide and the Effects on Environmental Salinity 377:101
Bruce, D.S., see Nicol, C.J.M. 390:73
Brunette, M.G., Vigneault, N., Carriere, S.
Magnesium Handling by the Papilla of the Young Rat 373:229
Brunette, M.G., see Giasson, S.D., et al. 371:33
Brunsting, J.R., Bennekers, J.H., Schuil, H.A., Zijlstra, W.G.
Incomplete Cardiac Vagal Blockade with Atropine in the Anesthetized Dog 381:293
Brunt, J.N.H., see Garland, H.O., et al. 381:11
Brutsaert, D.L., see Stephens, N.L., et al. 390:175
Bucher, P., see Dallmer, H., et al. 380:99
Budohoski, L., see Kozlowski, S., et al. 382:105
Bugli, P., see Goglia, F., et al. 390:120
Bühler, R., see Ruhland, M. 382:279
Bührle, Ch.P., see Sonnhof, U. 388:101
Bui, M. Van, Banchero, N.
Effects of Chronic Exposure to Cold or Hypoxia on Ventricular Weights and Ventricular Myoglobin Concentrations in Guinea Pigs During Growth 385:155
Bui, M.V., see Sillau, A.H., et al. 386:39
Bullivant, M., Hicks, K.O., Smaill, B.H.
A Simple Method for Estimating Tubular and Net Glomerular Capillary Pressures in the Isolated Perfused Kidney 389:251
Bülow, J., Madsen, J.
Human Adipose Tissue Blood Flow During Prolonged Exercise II 376:41
Bülow, J., Madsen, J.
Influence of Blood Flow on Fatty Acid Mobilization from Lipolytically Active Adipose Tissue 390:169
Bünger, R., Sommer, O., Walter, G., Stiegler, H., Gerlach, E.
Functional and Metabolic Features of an Isolated Perfused Guinea Pig Heart Performing Pressure-Volume Work 380:259
Burckhardt, G., Stern, H., Murer, H.
The Influence of pH on Phosphate Transport into Rat Renal Brush Border Membrane Vesicles 390:191
Burlini, N., see Esposito, G., et al. 382:67
Burlini, N., see Faelli, A., et al. 385:143
Burnstock, G., see Davison, J.S., et al. 377:43
Bursaux, E., Poyart, C., Guesnon, P., Teisseire, B.
Comparative Effects of CO_2 on the Affinity for O_2 of Fetal and Adult Erythrocytes 378:197
Bursaux, E., see Poyart, C., et al. 376:169
Busch, L., see Heintze, K., et al. 373:9
Bush, R.W., see Cokelet, G.R., et al. 390:94
Buss, J., see Stock, G., et al. 376:177
Busse, R., Bauer, R.D., Sattler, T., Schabert, A.
Dependence of Elastic and Viscous Properties of Elastic Arteries on Circumferential Wall Stress at Two Different Smooth Muscle Tones 390:113
Busse, R., see Bauer, R.D., et al. 380:221
Busse, R., see Schabert, A., et al. 385:239

Caffier, G., Kössler, F., Küchler, G.
The Influence of Free Fatty Acids on Functional Properties of Isolated Skeletal Muscles Octanoate Action on Membrane Resistance 383:87
Caflisch, C.R., Solomon, S., Galey, W.R.
Exocrine Ductal pCO_2 in the Rabbit Pancreas 380:121
Caflisch, C.R., see Gennari, F.J., et al. 387:69
Caille, D., see Hughes, A., et al. 388:239
Caille, D., see Vibert, J.F. 373:283
Caillé, J., Ildefonse, M., Rougier, O.
Existence of a Sodium Current in the Tubular Membrane of Frog Twitch Muscle Fibre; Its Possible Role in the Activation of Contraction 374:167
Caillé, J., Ildefonse, M., Rougier, O.
Evidence for an Action of Sodium Ions in the Activation of Contraction of Twitch Muscle Fibre 379:117
Camerer, H., see Kreuter, F., et al. 372:7
Camerer, H., see Richter, D.W., et al. 376:139
Camerer, H., see Richter, D.W., et al. 380:245
Campbell, C.J., see Bonen, A., et al. 380:205
Campbell, D., see Hughes, R.L., et al. 381:151
Campbell, F.W., see Hess, R.F., et al. 377:201
Camus, J.-C., see Chatelain, P., et al. 389:29
Camus, J.-C., see Chatelain, P., et al. 390:10
Candia, O., see Parisi, M., et al. 383:131
Capasso, G., see De Santo, N.G., et al. 384:117
Capraro, V., see Esposito, G., et al. 382:67
Capraro, V., see Esposito, G., et al. 390:202
Carella, C., see De Santo, N.G., et al. 384:117
Carmeliet, E.
Decrease of K Efflux and Influx by External Cs Ions in Cardiac Purkinje and Muscle Cells 383:143
Carmeliet, E., Ramon, J.
Electrophysiological Effects of Acetylcholine in Sheep Cardiac Purkinje Fibers 387:197
Carmeliet, E., Ramon, J.
Effect of Acetylcholine on Time-Independent Currents in Sheep Cardiac Purkinje Fibers 387:207
Carmeliet, E., Ramon, J.
Effects of Acetylcholine on Time-Dependent Currents in Sheep Cardiac Purkinje Fibers 387:217
Carmeliet, E., see Vereecke, J., et al. 384:207
Carmeliet, E.E., see Bogaert, P.-P. van, et al. 375:45
Carmeliet, E.E., see Pappano, A.J. 382:17
Carney, S.L., see Quamme, G.A., et al. 386:59
Carrasquillo, T., see Arruda, J.A.L., et al. 376:193
Carriere, S., see Brunette, M.G., et al. 373:229
Carriere, S., see Giasson, S.D., et al. 371:33
Carstens, E., Tulloch, I., Ziegigänsberger, W., Zimmermann, M.
Presynaptic Excitability Changes Induced by Morphine in Single Cutaneous Afferent C- and A-Fibers 379:143
Casavola, V., Curci, S., Lippe, C.
Effect of Cycloheximide on Urea Facilitated Transport Through Toad Gallbladder Epitherlium 384:155
Casellas, D., see Mimran, A. 382:233
Cassano, G., see Storelli, C., et al. 388:11
Cassidy, P., Hoar, P.E., Kerrick, W.G.L.
Inhibition of Ca^{2+}-Activated Tension and Myosin Light Chain Phosphorylation in Skinned Smooth Muscle Strips by the Phenothiazines 387:115
Castaing, M., Sinet, M.
Temperature and Oxygenation of Human Blood at Constant Total CO_2 Content 386:135
Casteels, R., Suzuki, H.
The Effect of Histamine on the Smooth Muscle Cells of the Ear Artery of the Rabbit 387:17
Casteels, R., see Kamm, K.E. 381:63
Caston, J., Gribenski, A.
Influence of the Saccule, Lagena and Vertical Posterior Canal on the Ipsilateral Horizontal and Vertical Anterior Semicircular Canals in *Rana esculeta:* Role of Receptor-Receptor Fibres 372:139
Castro de Souza, E.M., see Rocha e Silva, M. Jr., et al. 376:185
Cazin, L., Precht, W., Lannou, J.
Pathways Mediating Optokinetic Responses of Vestibular Nucleus in the Rat 384:19
Cazin, L., Precht, W., Lannou, J.
Optokinetic Responses of Vestibular Nucleus Neurons in the Rat 384:31

Cazin, L., Precht, W., Lannou, J.
Firing Characteristics of Neurons Mediating Optokinetic Responses to Rat's Vestibular Neurons 386:221
Cazin, L., see Lannou, J., et al. 385:123
Cecchi, G., Colomo, F., Lombardi, V., Piazzesi, G.
Development of Activation and Rise of Tension in an Isometric Tetanus 381:71
Cechetto, D., Mainwood, G.W.
Carbon Dioxide and Acid Base Balance in the Isolated Rat Diaphragm 376:251
Celle, P.L. La, see Cokelet, G.R., et al. 390:94
Celso de Lima, W., see Rocha e Silva, M. Jr., et al. 376:185
Cerretelli, P., see di Prampero, P.E., et al. 377:1
Cerretelli, P., see Prampero, P.E. di, et al. 389:257
Chadwick, K.R., see Riordan, K.K., et al. 390:99
Chan, Y.L.
Adrenergic Control of Bicarbonate Absorption in the Proximal Convoluted Tubule of Rat Kidney 388:159
Chanard, J., see Drüeke, T., et al. 373:249
Charbit, J.-J., see Laugier, R., et al. 384:83
Chatelain, P., Robberecht, P., De Neef, P., Camus, J.-C., Heuse, D., Christophe, J.
Secretin and VIP-Stimulated Adenylate Cyclase from Rat Heart. II. Impairment in Spontaneous Hypertension 389:29
Chatelain, P., Robberecht, P., De Neef, P., Deschodt-Lanckman, M., König, W., Christophe, J.
Secretin and VIP-Stimulated Adenylate Cyclase from Rat Heart. I. General Properties and Structural Requirements for Enzyme Activation 389:21
Chatelain, P., Robberecht, P., Neef, P. de, Camus, J.-C., Poloczek, P., Christophe, J.
Impairment of Hormone-Stimulated Cardiac Adenylate Cyclase Activity in the Genetically Obese (fa/fa) Zucker Rat 390:10
Chen, F.F., see Lin, M.T., et al. 382:87
Chern, Y.F., see Lin, M.T., et al. 377:245
Chern, Y.F., see Lin, M.T., et al. 382:87
Chernick, V., see Ioffe, S., et al. 388:143
Chernick, V., see Ioffe, S., et al. 388:149
Cheung, S.C., see Cheung, Y.M., et al. 379:101
Cheung, Y.M., Hwang, J.C., Chung, S.H., Cheung, S.C.
Changes in Diffraction Patterns with Length in Single Muscle Fibres at Rest 379:101
Cheung, Y.M., see Hwang, J.C., et al. 390:70
Chinet, A.E., see Dubois-Ferrière, R. 390:224
Chow, C.F., see Lin, M.T., et al. 377:245
Christensen, S.
Dissociation between Antidiuretic Response and Renal Medullary Cyclic AMP Levels in the Rat 374:229
Christophe, J., see Chatelain, P., et al. 389:29
Christophe, J., see Chatelain, P., et al. 389:21
Christophe, J., see Chatelain, P., et al. 390:10
Chung, S.H., see Cheung, Y.M., et al. 379:101
Claes, V.A., see Stephens, N.L., et al. 390:175
Claessens, R., see Turek, Z., et al. 374:285
Claudon, F., see Reichart, E. 380:105
Clausen, C., Fernandez, J.M.
A Low-Cost Method for Rapid Transfer Function Measurements with Direct Application to Biological Impedance Analysis 390:290
Clausen, G., see Rosivall, L., et al. 390:216
Cohen, C.J., see Thomas, R.C. 390:96
Cohen, I., see Attwell, D., et al. 379:137
Cohen, Y., see Prioux-Guyonneau, M., et al. 380:127
Cojocel, C., Franzen-Sieveking, M., Beckmann, G., Baumann, K.
Inhibition of Renal Accumulation of Lysozyme (Basic Low Molecular Weight Protein) by Basic Proteins and Other Basic Substances 390:211
Cokelet, G.R., Bush, R.W., Celle, P.L. La
Electroviscous and Electrophoretic Motion during Erythrocyte Entry in a Glass Capillary in the Presence of Applied Electric Potential Gradients 390:94
Colby, R.L., see Kerrick, W.G.L., et al. 386:207
Colin, D.A., Leray, C.
Interaction of Adenosine and its Phosphorylated Derivatives with Putative Purinergic Receptors in the Gill Vascular Bed of Rainbow Trout 383:35
Colomo, F., see Cecchi, G., et al. 381:71
Constable, T.B., Rogers, M.A., Evans, N.T.S.
Comparison between the Oxygen Removal Rate and the Histological Structure of Normal and Tumour Tissues 373:145
Cooper, K.E., see Vaughn, L.K., et al. 378:185
Coote, J.H., Macleod, V.H.
The Effect of Intraspinal Microinjections of 6-Hydroxydopamine on the Inhibitory Influence Exerted on Spinal Sympathetic Activity by the Baroreceptors 371:271
Coote, J.H., Macleod, V.H., Martin, I.L.
Bulbospinal Tryptaminergic Neurones. A Search for the Role of Bulbospinal Tryptaminergic Neurones in the Control of Sympathetic Activity 377:109
Coray, A., see Boyett, M.R., et al. 389:37
Corcelli, A., see Storelli, C., et al. 388:11
Corman, B., Thomas, R., McLeod, R., de Rouffignac, C.
Water and Total CO_2 Reabsorption Along the Rat Proximal Convoluted Tubule 389:45
Corman, B., see Poujeol, P., et al. 371:39
Cormarèche-Leydier, M.
The Effect of Ambient Temperature on Rectal Temperature, Food Intake and Short Term Body Weight in the Capsaicin Desensitized Rat 389:171
Coroneo, M.T., Denniss, A.R., Young, J.A.
The Action of Physalaemin on Electrolyte Excretion by the Mandibular and Sublingual Salivary Glands of the Rat 381:223
Costagliola, D., see Stupfel, M. 380:189
Cotelli, F., see Schettino, T., et al. 387:269
Crabbé, J.
Decreased Sensitivity to Amiloride of Amphibian Epithelia Treated with Aldosterone. Further Evidence for an Apical Hormonal Effect 383:151
Crabbé, J., see Nagel, W. 385:181
Cremaschi, D., see Schettino, T., et al. 387:269
Cretet, E., see Prioux-Guyonneau, M., et al. 380:127
Crowe, R., see Davison, J.S., et al. 377:43
Csengody, J., see Monos, E. 384:177
Csornai, M., see Betz, E. 374:67
Cubria, A., see Arruda, J.A.L., et al. 376:193
Cueva, S., see Sillau, A.H., et al. 386:269
Cunningham, D.J.C., see Metias, E.F., et al. 369:243
Curci, S., see Casavola, V., et al. 384:155
Curci, S., see Edelman, A., et al. 378:37
Curci, S., see Schettino, T. 383:99
Cure, M., see Rousset, B., et al. 375:177
Czachurski, J., see Amendt, K., et al. 375:289
Czernichow, P., see Arnauld, E., et al. 371:193

Dacke, C.G., see Bernardi, N., et al. 372:203
Dacke, C.G., see Davidson, N., et al. 379:149
Dahlheim, H., Emrich, H.M.
Renin-Like (Angiotensinogenase) Activity in Human Eccrine Sweat 377:65
Dahlheim, H., see Ploth, D.W., et al. 375:261
Dallmer, H., Derks, M., Bucher, P., Meesmann, W.
Construction and Function of a New Hydraulic Cuff Occluder 380:99
Danan, G., see Giasson, S.D., et al. 371:33
D'Andrea, G., see Ferrari, G., et al. 376:47
Danisevskis, P., see Wiederholt, M., et al. 388:169
Danisi, G., Bonjour, J.-Ph., Straub, R.W.
Regulation of Na-Dependent Phosphate Influx Across the Mucosal Border of Duodenum by 1,25-Dihydroxycholecalciferol 388:227
Danisi, G., Straub, R.W.
Unidirectional Influx of Phosphate Across the Mucosal Membrane of Rabbit Small Intestine 385:117

Davidson, N., Bernardi, N., Fawcett, M., Wong, E., Assumpçao, J.A., Dacke, C.G.
A Possible Neuronal Release of [^{14}C] GABA from the Rat Cerebellum in vivo 379:149
Davidson, N., see Bernardi, N., et al. 372:203
Davies, B.N., Powis, D.A., Withrington, P.G.
The Differential Effect of Cooling on the Responses of Splenic Capsular and Vascular Smooth Muscle to Nerve Stimulation and Noradrenaline 377:87
Davies, M.A., see Hipp, F.X., et al. 385:45
Davis, B.N., see Withrington, P.G., et al. 388:37
Davis, J.M., see Häberle, D.A., et al. 376:191
Davison, J.S., Al-Hassani, M., Crowe, R., Burnstock, G.
The Non-Adrenergic, Inhibitory Innervation of the Guinea-Pig Gallbladder 377:43
Davison, J.S., Pearson, G.T.
The Role of Intrinsic, Non-Adrenergic, Non-Cholinergic Inhibitory Nerves in the Regulation of Distensibility of the Guinea-Pig Colon 381:75
Davison, J.S., Schofield, B.
Potentiation of Gastrin and Histamine Stimulated Acid Secretion in Heidenhain Pouches by Distention – an Atropine-Resistant Mechanism 386:53
Davison, W., see Johnston, I.A., et al. 371:257
Debreczeni, L., see Farsang, C., et al. 379:223
Decke, B., see Lutz, J., et al. 376:1
Deetjen, P., see Greger, R., et al. 374:243
Deetjen, P., see Günther, R., et al. 382:109
Deetjen, P., see Völkl, H., et al. 382:115
Defrain, W., see Greven, J., et al. 384:57
Defrain, W., see Greven, J., et al. 384:61
Deitmer, J.W., see Ellis, D. 377:209
Delaval, E., Moreau, E., Geloso, J.-P.
Development of Ammonia and Glucose Productions from Glutamine in Foetal Rat Kidney; Effects of Metabolic Acidosis 379:95
Delavault, E., Saumon, G.
An Analog Device to Facilitate Occlusion Pressure Measurements 385:259
Delcroix, C., see Kawazu, S., et al. 375:197
Delmore, G., Koller, E.A.
The Role of Augmented Breaths (Sighs) in Bronchial Asthma Attacks 372:1
Delpierre, S., Guillot, C., Fornaris, M., Jammes, Y., Grimaud, C.
Transient Hypoxia: Ventilatory Response after Vagotomy and during Artificial Phasic Inflation 379:53
Dembowsky, K., see Amendt, K., et al. 375:289
Demeester, M., see Jank, K., et al. 371:175
De Mello, W.C.
Effect of 2-4-Dinitrophenol on Intercellular Communication in Mammalian Cardiac Fibres 380:267
Demol, P., see Laugier, R., et al. 384:83
Dengler, R., Rüdel, R., Warelas, J., Birnberger, K.L.
Corticosteroids and Neuromuscular Transmission: Electrophysiological Investigation of the Effects of Prednisolone on Normal and Anticholinesterase-Treated Neuromuscular Junction 380:145
Denniss, A.R., Young, J.A.
Modification of Salivary Duct Electrolyte Transport in Rat and Rabbit by Physalaemin, VIP, GIP and Other Enterohormones 376:73
Denniss, A.R., see Coroneo, M.T., et al. 381:223
Denoth, F., Magherini, P.C., Pompeiano, O., Stanojević, M.
Responses of Purkinje Cells of the Cerebellar Vermis to Neck and Macular Vestibular Inputs 381:87
Derks, C.M., Lisart, J.J.
Respiratory Mechanics Measured by a Simple Device 371:285
Derks, M., see Dallmer, H., et al. 380:99
De Santo, N.G., Capasso, G., Paduano, C., Carella, C., Giordano, C.
Tubular Transport Processes in Proximal Tubules of Hypothyroid Rats. Micropuncture Studies on Isotonic Fluid, Amino Acid and Buffer Reabsorption 384:117
Deschodt-Lanckman, M., see Chatelain, P., et al. 389:21
Deutsch, H., Simon, E.
Intracerebroventricular Osmosensitivity in the Pekin Duck. Properties and Functions in Salt and Water Balance 387:1
Deutsch, H., see Simon-Oppermann, Ch., et al. 387:99
Dev, N.B., Loeschcke, H.H.
Topography of the Respiratory and Circulatory Responses to Acetylcholine and Nicotine on the Ventral Surface of the Medulla oblongata 379:19
Dev, N.B., Loeschcke, H.H.
A Cholinergic Mechanism Involved in the Respiratory Chemosensitivity of the Medulla oblongata in the Cat 379:29
Devis, G., see Somers, G., et al. 385:217
Devis, G., see Somers, G., et al. 388:249
Dewey, M.M., see Barr, L., et al. 380:165
DiBona, D.R., see Frega, N.S., et al. 381:159
Diemer, H.P., see Wichmann, J., et al. 373:219
Dieringer, N., Precht, W.
Timing of Bilateral Cerebellar Output Evoked by Unilateral Vestibular Stimulation in the Frog 380:79
Diezi, J., Nenniger, M., Rossier, B.C.
Inhibition of the Anti-Natriuretic Action of Aldosterone by Thyroid Hormone in the Rat 385:91
Diezi-Chométy, F., see Roch-Ramel, F., et al. 383:203
DiFrancesco, D., Noma, A., Trautwein, W.
Kinetics and Magnitude of the Time-Dependent Potassium Current in the Rabbit Sinoatrial Node Effect of External Potassium 381:271
DiFrancesco, D., Noma, A., Trautwein, W.
Separation of Current Induced by Potassium Accumulation from Acetylcholine-Induced Relaxation Current in the Rabbit S-A Node 387:83
Dijk, J.P. van, Kreel, B.K. van
Transport and Accumulation of α-Aminoisobutyric Acid (A.I.B.) in the Guinea Pig Placenta 377:217
Dikstein, S., see Shalita, B. 379:245
di Prampero, P.E., Meyer, M., Cerretelli, P., Piiper, J.
Energetics of Anaerobic Glycolysis in Dog Gastrocnemius 377:1
di Prampero, P.E., Meyer, M., Cerretelli, P., Piiper, J.
Energy Sources and Mechanical Efficiency of Anaerobic Work in Dog Gastrocnemius 389:257
Dirks, J.H., see Quamme, G.A., et al. 377:95
Dirks, J.H., see Quamme, G.A., et al. 386:59
Dlouhá, H., Teisinger, J., Vyskočil, F.
Activation of Membrane Na^+/K^+-ATPase of Mouse Skeletal Muscle by Acetylcholine and Its Inhibition by α-Bungarotoxin, Curare and Atropine 380:101
Dörge, A., Rick, R., Gehring, K., Thurau, K.
Preparation of Freeze-Dried Cryosections for Quantitative X-Ray Microanalysis of Electrolytes in Biological Soft Tissues 373:85
Dörge, A., see Rick, R., et al. 385:1
Dörner, A., see Ravussin, E., et al. 382:197
Dörrscheidt-Käfer, M.
Excitation-Contraction Coupling in Frog Sartorius and the Role of the Surface Charge Due to the Carboxyl Group of Sialic Acid 380:171
Dörrscheidt-Käfer, M.
The Interaction of Ruthenium Red with Surface Charges Controlling Excitation-Contraction Coupling in Frog Sartorius 380:181
Drake, A., see Kaczmarczyk, G., et al. 390:125
Driessche, W. Van, see Gögelein, H. 389:105
Driessche, W. Van, see Zeiske, W. 390:22
Driessen, G.K., Haest, C.W.M., Heidtmann, H., Kamp, D., Schmid-Schönbein, H.
Effect of Reduced Red Cell "Deformability" on Flow Velocity in Capillaries of Rat Mesentery 388:75

Driessen, G.K., Heidtmann, H., Schmid-Schönbein, H.
Effect of Hemodilution and Hemoconcentration on Red Cell Flow Velocity in the Capillaries of the Rat Mesentery 380:1
Driessen, G.K., see Haest, C.W.M., et al. 388:69
Drüeke, T., Chanard, J., Lacour, B., Pujade-Lauraine, E., Funck-Brentano, J.-L.
Effects of Hyperoncotic Albumin and Parathyroid Hormone Infusion on Jejunal Electrolyte and Water Absorption in the Rat 373:249
Dubois, J.-M., see Attwell, D., et al. 384:49
Dubois-Ferrière, R., Chinet, A.E.
Contribution of Skeletal Muscle to the Regulatory Non-Shivering Thermogenesis in Small Mammals 390:224
Dudel, J.
Voltage Dependence of Amplitude and Time Course of Inhibitory Synaptic Current in Crayfish Muscle 371:167
Dudel, J.
Relaxation After a Voltage Step of Inhibitory Synaptic Current Elicited by Nerve Stimulation (Crayfish Neuromuscular Junction) 376:151
Dudel, J., Finger, W.
Closing of Membrane Channels Effected by γ-Amino-Butyric Acid (GABA) in Crayfish Muscle 387:153
Dudel, J., Finger, W., Stettmeier, H.
Inhibitory Synaptic Channels Activated by γ-Aminobutyric Acid (GABA) in Crayfish Muscle 387:143
Duling, B.R., Kuschinsky, W., Wahl, M.
Measurements of the Perivascular PO_2 in the Vicinity of the Pial Vessels of the Cat 383:29
Durasin, I., see Frick, A. 377:9
Durasin, I., see Frick, A. 382:123
Durasin, I., see Frick, A. 385:189
Duruble, M., see Martin, J.L., et al. 382:57
Duvelleroy, M., see Martin, J.L., et al. 382:57

Earnest, W.R., see Westenfelder, C., et al. 386:161
Eckmiller, R., Mackeben, M.
Pursuit Eye Movements and their Neural Control in the Monkey 377:15
Edelman, A., Curci, S., Samaržija, I., Frömter, E.
Determination of Intracellular K^+ Activity in Rat Kidney Proximal Tubular Cells 378:37
Edgerton, V.R., see Gardiner, P.F., et al. 385:147
Edvinsson, L., see MacKenzie, E.T., et al. 378:189
Eggert, P., Thiemann, V., Weiss, Ch.
Periodic Changes of Blood Flow in the in vivo Rat Kidney 382:63
Eggert, P., Weiss, Ch.
Periodic Microflow Pattern Measured with a New Microflow Probe Within the Rat Kidney Cortex 383:223
Ehrlein, H.-J., see Hörnicke, H., et al. 372:95
Eigenheer, F., see Kaczmarczyk, G., et al. 373:49
Einwächter, H.M., Brommundt, G.
Transient Tension Responses of Voltage-Clamped Frog Atrial Muscle Related to Sudden Changes in External Ca or Na 375:69
Eisele, R., see Kaczmarczyk, G., et al. 390:125
Eisele, R., see Reinhardt, H.W., et al. 384:171
Eisner, D.A., see Lederer, W.J., et al. 381:287
Eisner, D., see Attwell, D., et al. 379:137
Ellis, D., Deitmer, J.W.
The Relationship Between the Intra- and Extracellular Sodium Activity of Sheep Heart Purkinje Fibres During Inhibition of the Na-K Pump 377:209
Emrich, H.M., see Dahlheim, H. 377:65
Endou, H., see Tomita, K., et al. 389:91
Engelhardt, W.v., see Hörnicke, H., et al. 372:95
Epstein, F.H., see Eveloff, J., et al. 378:87
Ercan, M.T., see Bor, N.M., et al. 386:277
Erway, L., see Stanojević, M., et al. 385:95
Esposito, G., Faelli, A., Tosco, M., Burlini, N., Capraro, V.
Extracellular Space Determination in Rat Small Intestine by Using Markers of Different Molecular Weights 382:67
Esposito, G., Faelli, A., Tosco, M., Capraro, V.
Hyperglycemia and Net Transintestinal Glucose and Sodium Transport in the Rat 390:202
Esposito, G., see Faelli, A., et al. 385:143
Evans, N.T.S., see Constable, T.B., et al. 373:145
Eveloff, J., Bayerdörffer, E., Silva, P., Kinne, R.
Sodium-Chloride Transport in the Thick Ascending Limb of Henle's Loop. Oxygen Consumption Studies in Isolated Cells 389:263
Eveloff, J., Kinne, R., Kinne-Saffran, E., Murer, H., Silva, P.,
Epstein, F.H., Stoff, J., Kinter, W.B.
Coupled Sodium and Chloride Transport into Plasma Membrane Vesicles Prepared from Dogfish Rectal Gland 378:87
Evenwel, R., Struycker-Boudier, H.
Effect of Physical Training on the Developmental of Hypertension in the Spontaneously Hypertensive Rat 381:19
Eysel, U.Th.
Susceptibility of the Cat's Visual System to Hypoxia, Hypotonia and Circulatory Arrest 375:251

Faelli, A., Esposito, G., Tosco, M., Burlini, N.
Lactate and Bicarbonate Transport in Rat and Hamster Jejuna Incubated in vitro 385:143
Faelli, A., see Esposito, G., et al. 382:67
Faelli, A., see Esposito, G., et al. 390:202
Fagard, R.H., Amery, A.K., Lijnen, P.J.
Renal Responses to Angiotensin II and 1-Sar-8-Ala-A II in Sodium Replete and Deplete Dogs 374:199
Faienza, H., see Locatto, M.E., et al. 389:81
Falempin, M., Mei, N., Rousseau, J.P.
Vagal Mechanoreceptors of the Inferior Thoracic Oesophagus, the Lower Oesophageal Sphincter and the Stomach in the Sheep 373:25
Farrar, J.T., see Tasaka, K., et al. 379:303
Farsang, C., Debreczeni, L., Kerényi, Á., Takács, L.
Effect of Phenoxybenzamine and Propranolol on Myocardial Reactive Hyperaemia in Fibrillating Canine Heart 379:223
Farsang, C., Kerényi, Á., Takács, L.
Régulation of Myocardial Oxygen Consumption by Perfusion Pressure in Isolated Fibrillating Canine Heart 380:211
Favilla, M., Ghelarducci, B., Hill, C.D., Spyer, K.M.
Vestibular Inputs to the Fastigial Nucleus; Evidence of Convergence of Macular and Ampullar inputs 384:193
Favre, H., Louis, F., Gourjon, M.
Role of the Basal Sodium Intake in the Rats on Their Response to a Natriuretic Factor 382:73
Fawcett, A.A., see Hales, J.R.S., et al. 372:157
Fawcett, A.A., see Hales, J.R.S., et al. 376:87
Fawcett, A.A., see Hales, J.R.S., et al. 378:55
Fawcett, A.A., see Hales, J.R.S., et al. 379:295
Fawcett, M., see Davidson, N., et al. 379:149
Fejes-Tóth, G., Fekete, A., Walter, J.
Effect of Antidiuretic Hormone and Indomethacin on Intrarenal Microsphere Distribution 376:67
Fekete, A., see Fejes-Tóth, G., et al. 376:67
Felgenhauer, K.
Protein Filtration and Secretion at Human Body Fluid Barriers 384:9
Fennis, J.F.M., see Herwaarden, C.L.A. van, et al. 385:21
Ferard, G., see Vasseur, M., et al. 373:133
Ferard, G., see Vasseur, M., et al. 379:297
Fernandez, J.M., see Clausen, C. 390:290
Fernandez, M.C., see Locatto, M.E., et al. 389:81
Ferrari, G., Rindi, G., D'Andrea, G.
The Action of Inorganic Phosphate on Thiamin Transport by Rat Everted Jejunal Sacs 376:47

Finger, W., Stettmeier, H.
Efficacy of the Two-Microelectrode Voltage Clamp Technique in Crayfish Muscle 387:133
Finger, W., see Dudel, J. 387:153
Finger, W., see Dudel, J., et al. 387:143
Fink, R., Wettwer, E.
Modified K-Channel Gating by Exhaustion and the Block by Internally Applied TEA^+ and 4-Aminopyridine in Muscle 374:289
Finkinstein, Y.D., see Tyryshina, E.M., et al. 390:270
Fischer, E.H., see Kerrick, W.G.L., et al. 381:53
Fischer, E.H., see Kerrick, W.G.L., et al. 386:207
Fischer, F.H., Schmitz, L., Hoff, W., Schartl, S., Liegl, O., Wiederholt, M.
Sodium and Chloride Transport in the Isolated Human Cornea 373:179
Fischer, J.A., see Hunziker, W., et al. 371:185
Fischer, T.M., see Haest, C.W.M., et al. 388:69
Fitch, C.D., see Petrofsky, J.S. 384:123
Fitch, W., see Hughes, R.L., et al. 381:151
Fitch, W., see MacKenzie, E.T., et al. 378:189
Flaim, S.F., Minteer, W.J., Zelis, R.
Acute Effects of Arterio-Venous Shunt on Cardiovascular Hemodynamics in Rat 385:203
Flatman, J.A., see Mølgaard, H., et al. 383:181
Fleisch, H., see Mühlbauer, R.C., et al. 388:185
Fleisch, H., see Stoll, R., et al. 380:47
Flowaczny, H., see Schad, H., et al. 378:121
Folgering, H., Rutten, J., Agoston, S.
Stimulation of Phrenic Nerve Activity by an Acetylcholine Releasing Drug: 4-Aminopyridine 379:181
Folgering, H., Smolders, F.
The Steady State Response of Brainstem Respiratory Neuron Activity to Various Levels of P_{A,CO_2} and P_{A,O_2} 383:9
Folgering, H., Smolders, F.D.J., Kreuzer, F.
Respiratory Oscillations of the Arterial PO_2 and Their Effects on the Ventilatory Controlling System in the Cat 375:1
Folgering, H.Th., see Hulsbosch, M.A.M., et al. 378:85
Folgering, H.Th., see Smolders, F.D.J., et al. 372:289
Folgering, H.Th.M., see Smolders, F.D.J. 383:1
Fornaris, M., see Delpierre, S., et al. 379:53
Forrest, J.N. Jr., see Hecht, B., et al. 377:69
Forsling, M.L., see Thomson, E.M., et al. 383:241
Fossat, B., Lahlou, B.
Failure of 2,4,6-Triaminopyrimidine (TAP) to Block Sodium Pathways in a "Leaky" Epithelium. The Urinary Bladder of the Trout 379:287
Francesconi, A., see Belcari, P., et al. 371:147
Frank, A., see Wenzel, D., et al. 374:107
Frankel, H.M., Seitz, J., Nolan, W.
Arterial Pa_{CO_2} During Chronic Hyperthermia in Sheep 384:143
Frankena, H., see Zweens, J., et al. 376:131
Frankena, H., see Zweens, J., et al. 385:71
Frankfurt, S.J., see Knight, T.F., et al. 373:139
Frans, A., Turek, Z., Yokota, H., Kreuzer, F.
Effect of Variations in Blood Hydrogen Ion Concentration on Pulmonary Gas Exchange of Artificially Ventilated Dogs 380:35
Franzen-Sieveking, M., see Cojocel, C., et al. 390:211
Fredrickson, J.M., see Rubin, A.M., et al. 371:155
Frega, N.S., DiBona, D.R., Leaf, A.
The Protection of Renal Function from Ischemic Injury in the Rat 381:159
Fregin, G.F., see Thomas, D.P., et al. 385:65
Frei, Y.F., see Wolfenson, D., et al. 390:86
Frick, A., Durasin, I.
Maximal Reabsorptive Capacity for Inorganic Phosphate (Tm_{P_i}) in the Absence of Parathyroid Hormone in the Rat: Decrease of the Tm_{P_i} During Prolonged Administration of Phosphate and the Role of Calcium 377:9
Frick, A., Durasin, I.
Acute Effects of Hydrocortisone on the Reabsorption of Inorganic Phosphate in Normal, Adrenalectomized and Parathyroidectomized Rats 382:123
Frick, A., Durasin, I.
Proximal Tubular Reabsorption of Inorganic Phosphate in Adrenalectomized Rats 385:189
Friedman, P.A., Roch-Ramel, F.
Micropuncture Study of Fluid Handling in Cat Kidney 372:239
Fromm, M., Hegel, U.
Segmental Heterogeneity of Epithelial Transport in Rat Large Intestine 378:71
Fromm, M., Weskamp, P., Hegel, U.
Versatile Piezoelectric Driver for Cell Puncture 384:69
Frömter, E., Gebler, B.
Electrical Properties of Amphibian Urinary Bladder Epithelia. III. The Cell Membrane Resistances and the Effect of Amiloride 371:99
Frömter, E., see Edelman, A., et al. 378:37
Frömter, E., see Higgins, Jr., J.T., et al. 371:87
Frömter, E., see Schifferdecker, E. 377:125
Frömter, E., see Suzuki, K. 371:109
Frömter, E., see Suzuki, K., et al. 378:141
Fuchs, R., Peterlik, M.
Pathways of Phosphate Transport in Chick Jejunum Influence of Vitamin D and Extracellular Sodium 381:217
Fujita, T., see Yasuda, M., et al. 385:111
Fukuda, Y., Honda, Y., Schläfke, M.E., Loeschcke, H.H.
Effect of H^+ on the Membrane Potential of Silent Cells in the Ventral and Dorsal Surface Layers of the Rat Medulla in vitro 376:229
Fukuda, Y., Loeschcke, H.H.
Effect of H^+ on Spontaneous Neuronal Activity in the Surface Layer of the Rat Medulla Oblongata in vitro 371:125
Fukuda, Y., Loeschcke, H.H.
A Cholinergic Mechanism Involved in the Neuronal Excitation by H^+ in the Respiratory Chemosensitive Structures of the Ventral Medulla oblongata of Rats in vitro 379:125
Fukuda, Y., See, W.R., Honda, Y.
H^+-Sensitivity and Pattern of Discharge of Neurons in the Chemosensitive Areas of the Ventral Medulla Oblongata of Rats in vitro 388:53
Fumoux, F., see Arnauld, E., et al. 371:193
Funck-Brentano, J.-L., see Drüeke, T., et al. 373:249
Fussey, I.V., see Andrews, P.L.R., et al. 387:55

Gaehtgens, P., Pries, A., Albrecht, K.H.
Model Experiments on the Effect of Bifurcations on Capillary Blood Flow and Oxygen Transport 380:115
Gaehtgens, P., Schmidt, F., Will, G.
Comparative Rheology of Nucleated and Non-Nucleated Red Blood Cells. I. Microrheology of Avian Erythrocytes during Capillary Flow 390:278
Gaehtgens, P., Will, G., Schmidt, F.
Comparative Rheology of Nucleated and Non-Nucleated Red Blood Cells. II. Rheological Properties of Avian Red Cell Suspensions in Narrow Capillaries 390:283
Galaske, R.G., Baldamus, C.A., Stolte, H.
Plasma Protein Handling in the Rat Kidney: Micropuncture Experiments in the Acute Heterologous Phase of Anti-GBM-Nephritis 375:269
Galey, W.R., see Caflisch, C.R., et al. 380:121
Gallacher, D.V., Petersen, O.H.
Substance P: Indirect and Direct Effects on Parotid Acinar Cell Membrane Potential 389:127
Gallego, R., Belmonte, C.
The Effects of Blood Osmolality Changes on Cat Carotid Body Chemoreceptors in vivo 380:53
Garcia-Romeu, F., see Katz, U., et al. 390:299
Gardiner, P.F., Hibl, B., Simpson, D.R., Roy, R., Edgerton, V.R.
Effects of a Mild Weight-Lifting Program on the Progress of Glucocorticoid-Induced Atrophy in Rat Hindlimb Muscles 385:147

Garg, L.C.
Lack of Effect of Amphotericin B on Urine-Blood pCO_2 Gradient in Spite of Urinary Acidification Defect 381:137
Garhart, S.J., see Winder, W.W., et al. 389:195
Garland, H.O., Brunt, J.N.H., Taylor, C.J., Green, R.
Computerised Image Analysis of Split-Drop Micropuncture Data 381:11
Garred, L.J., see Spaan, J.A.E., et al. 372:279
Gary-Bobo, C.M., see Goudeau, H., et al. 379:71
Gatzka, M., see Kaczmarczyk, G., et al. 373:49
Gauer, O.H., see Kapteina, F.W., et al. 374:23
Gauer, O.H., see Koubenec, H.-J., et al. 374:121
Gauer, O.H., see Risch, W.D. et al. 374:115
Gauer, O.H., see Risch, W.D., et al. 374:119
Gay, L.A., Stanfield, P.R.
The Selectivity of the Delayed Potassium Conductance of Frog Skeletal Muscle Fibres 378:177
Gazendam, J., Kwarts, E.
Lactate Dehydrogenase and Creatine Kinase Activities in Isolated Edema Fluid and Peripheral Blood in Cold-Induced Brain Edema 386:71
Gebler, B., see Frömter, E. 371:99
Gebler, B., see Higgins, Jr., J.T., et al. 371:87
Gehring, K., see Dörge, A., et al. 373:85
Geloso, J.-P., see Delaval, E., et al. 379:95
Gennari, F.J., Johns, C., Caflisch, C.R.
Effect of Benzolamide on pH in the Proximal Tubules and Peritubular Capillaries of the Rat Kidney 387:69
Gerber, N.H., see Thomas, D.P., et al. 385:65
Gerendasy, D., see Lo, C.S., et al. 390:186
Gerlach, E., see Bünger, R., et al. 380:259
Gerlach, E., see Schrader, J., et al. 372:29
Gerlach, E., see Schrader, J., et al. 378:167
Gerlach, E., see Zimmer, H.-G. 376:223
Gertz, K.-H., see Seiller, W. 371:235
Ghelarducci, B., see Favilla, M., et al. 384:193
Ghelarducci, B., see Stanojević, M., et al. 385:95
Giasson, S.D., Brunette, M.G., Danan, G., Vigneault, N., Carriere, S.
Micropuncture Study of Renal Phosphorus Transport in Hypophosphatemic Vitamin D Resistant Rickets Mice 371:33
Gibbs, C., Loiselle, D.
The Energy Output of Tetanized Cardiac Muscle: Species Differences 373:31
Giedrojć, J., see Górski, J., et al. 377:251
Gielen, W., see Hipp, F.X., et al. 385:45
Giese, K., Berndt, J., Berger, W.
Interaction of Central and Peripheral Respiratory Drives in Cats. II. Peripheral and Central Interaction of Hypoxia and Hypercapnia 374:211
Giese, K., see Berger, W., et al. 374:205
Gillies, A., Morgan, T.
Renin Content of Individual Juxtaglomerular Apparatuses and the Effect of Diet, Changes in Nephron Flow Rate and in vitro Acidification on the Renin Content 375:105
Giordano, C., see De Santo, N.G., et al. 384:117
Girard, H., see Moll, W., et al. 385:229
Girardier, L., see Seydoux, J., et al. 390:1
Gjedde, A., see Hansen, A.J., et al. 389:1
Glaser, K., see Greven, J., et al. 384:57
Glatt, A., Monnier, M.
EEG Effects of the Ventricular Cerebrospinal Fluid of Rabbits Submitted to Thalamic Stimulation 374:101
Glitsch, H.G., Pott, I.
Effect of Divalent Cations on Acetylcholine Release from Cardiac Parasympathetic Nerve Endings 377:57
Glitsch, H.G., Pusch, H.
Correlation between Changes in Membrane Potential and Intracellular Sodium Activity during K Activated Response in Sheep Purkinje Fibres 384:189
Godehard, E., see Samodelov, L.F., et al. 383:47
Godt, R.E., see Maughan, D.W. 390:161
Gögelein, H., Van Driessche, W.
Capacitive and Inductive Low Frequency Impedances of Necturus Gallbladder Epithelium 389:105
Goglia, F., Torresani, J., Bugli, P., Barletta, A., Liverini, G.
In vitro Binding of Triiodothyronine to Rat Liver Mitochondria 390:120
Goldspink, G., see Johnston, I.A., et al. 371:257
Golenhofen, K., see Mandrek, K. 371:119
González, E., Leal Pinto, E., Pérez-González, M., Whittembury, G.
Abnormal Transtubular Permeability to Raffinose During Intravenous Infusion of Urea and of Mannitol in the Intact Dog Kidney 383:165
Gopal, M., see Neill, W.A., et al. 388:193
Górka, Z., see Spławiński, J.A., et al. 374:15
Görke, K., Pierau, F.-K.
Spike Potentials and Membrane Properties of Dorsal Root Ganglion Cells in Pigeons 386:21
Görke, K., Pierau, Fr.-K.
Initiation of Muscle Activity in Spinalized Pigeons During Spinal Cord Cooling and Warming 381:47
Górski, J.
Exercise-Induced Changes of Reactivity of Different Types of Muscle on Glycogenolytic Effect of Adrenaline 373:1
Górski, J., Namiot, Z., Giedrojć, J.
Effect of Exercise on Metabolism of Glycogen and Triglycerides in the Respiratory Muscles 377:251
Goudeau, H., Wietzerbin, J., Gary-Bobo, C.M.
Effects of Mucosal Lanthanum on Electrical Parameters of Isolated Frog Skin. Mechanism of Action 379:71
Goupil, N., see Lenfant, J. 372:121
Gourjon, M., see Favre, H., et al. 382:73
Graf, R.
Diurnal Changes of Thermoregulatory Functions in Pigeons. I. Effector Mechanisms 385:173
Graf, R.
Diurnal Changes of Thermoregulatory Functions in Pigeons. II. Spinal Thermosensitivity 386:181
Graf, R., Necker, R.
Cyclic and Non-Cyclic Variations of Spinal Cord Temperature Related with Temperature Regulation in Pigeons 380:215
Graham, D.I., see MacKenzie, E.T., et al. 378:189
Graham, T., Sjogaard, G., Lölgen, H., Saltin, B.
NAD in Muscle of Man at Rest and During Exercise 376:35
Grandjean, B., Annat, G., Vincent, M., Sassard, J.
Influence of Renal Nerves on Renin Secretion in the Conscious Dog 373:161
Grandtner, M., see Turek, Z., et al. 376:209
Granger, D.N., Richardson, P.D.I., Taylor, A.E.
Volumetric Assessment of the Capillary Filtration Coefficient in the Cat Small Intestine 381:25
Gray, T.A., see Petersen, O.H., et al. 372:231
Green, H.J., see Thomson, J.A., et al. 379:105
Green, R., see Garland, H.O., et al. 381:11
Greenhalgh, T., see Hess, R.F., et al. 377:201
Greenwood, P.V., Hainsworth, R., Karim, F., Morrison, G.W., Sofola, O.A.
Reflex Inotropic Responses of the Heart from Lung Inflation in Anaesthetized Dogs 386:199
Greger, R.
Cation Selectivity of the Isolated Perfused Cortical Thick Ascending Limb of Henle's Loop of Rabbit Kidney 390:30
Greger, R.
Chloride Reabsorption in the Rabbit Cortical Thick Ascending Limb of the Loop of Henle. A Sodium Dependent Process 390:38
Greger, R., Hampel, W.
A Modified System for in vitro Perfusion of Isolated Renal Tubules 389:175
Greger, R., Lang, F., Oberleithner, H.
Distal Site of Calcium Reabsorption in the Rat Nephron 374:153

Greger, R., Lang, F., Oberleithner, H., Deetjen, P.
Handling of Oxalate by the Rat Kidney 374:243
Greger, R., Oberleithner, H., Lang, F., Sporer, H.
Continuous in vivo Measurement of Plasma Ionized, Calcium 384:105
Greger, R., see Lang, F., et al. 375:39
Greger, R., see Lang, F., et al. 386:239
Greger, R., see Oberleithner, H., et al. 374:249
Greger, R., see Oberleithner, H., et al. 379:37
Gregory, J.E., Luff, A.R., Morgan, D.L., Proske, U.
The Stiffness of Amphibian Slow and Twitch Muscle During High Speed Stretches 375:207
Gregory, P.C., Boisvert, D.P.J., Harper, A.M.
Adenosine Response on Pial Arteries, Influence of CO_2 and Blood Pressure 386:187
Grenier, J.F., see Bauduin, H., et al. 372:69
Grenier, J.F., see Pousse, A., et al. 376:259
Grenier, J.F., see Pousse, A., et al. 381:15
Greven, J., Beckers, M., Defrain, W., Meywald, K., Heidenreich, O.
Studies with the Optically Active Isomers of the New Diuretic Drug Ozolinone. II. Inhibition by d-Ozolinone of Furosemide-Induced Diuresis 384:61
Greven, J., Defrain, W., Glaser, K., Meywald, K., Heidenreich, O.
Studies with the Optically Active Isomers of the New Diuretic Drug Ozolinone. I: Differences in Stereoselectivity of the Renal Target Structures of Ozolinone 384:57
Gribenski, A., see Caston, J. 372:139
Griffiths, P.J., Güth, K., Kuhn, H.J., Rüegg, J.C.
ATPase Activity in Rapidly Activated Skinned Muscle Fibres 387:167
Griffiths, P.J., Kuhn, H.J., Güth, K., Rüegg, J.C.
Rate of Isometric Tension Development in Relation to Calcium Binding of Skinned Muscle Fibres 382:165
Griffiths, P.J., Kuhn, H.J., Rüegg, J.C.
Activation of the Contractile System of Insect Fibrillar Muscle at Very Low Concentrations of Mg^{2+} and Ca^{2+} 382:155
Grimaud, C., see Delpierre, S., et al. 379:53
Grind, W.A. van de, see Molenaar, J., et al. 383:173
Groot, J.A., Albus, H., Siegenbeek van Heukelom, J.
A Mechanistic Explanation of the Effect of Potassium on Goldfish Intestinal Transport 379:1
Groot, J.A., see Albus, H., et al. 383:55
Gros, G., see Moll, W., et al. 385:229
Gross, F., see Konrads, A., et al. 377:81
Gross, R., Kirchheim, H.
Effects of Bilateral Carotid Occlusion and Auditory Stimulation on Renal Blood Flow and Sympathetic Nerve Activity in the Conscious Dog 383:233
Gross, R., Ruffmann, K., Kirchheim, H.
The Separate and Combined Influences of Common Carotid Occlusion and Nonhypotensive Hemorrhage on Kidney Blood Flow 379:81
Grossman, U., see Wodick, R., et al. 374:91
Grote, J., Süsskind, R., Vaupel, P.
Oxygen Diffusivity in Tumor Tissue (DS-Carcinosarcoma) under Temperature Conditions within the Range of 20–40° C 372:37
Grünewald, G., Grünewald-Zuberbier, E., Hömberg, V., Netz, J.
Cerebral Potentials During Smooth Goal-Directed Hand Movements in Right-Handed and Left-Handed Subjects 381:39
Grünewald, G., see Grünewald-Zuberbier, E., et al. 389:55
Grunewald, W.A., Sowa, W.
Distribution of the Myocardial Tissue PO_2 in the Rat and the Inhomogeneity of the Coronary Bed 374:57
Grünewald-Zuberbier, E., Grünewald, G., Schuhmacher, H., Wehler, A.
Scalp Recorded Slow Potential Shifts During Isometric Ramp and Hold Contractions in Human Subjects 389:55
Grünewald-Zuberbier, E., see Grünewald, G., et al. 381:39
Guégan, M., Horcholle-Bossavit, G.
Reflex Control of the Retractor-Bulbi Muscle in the Cat 389:143
Guesnon, P., see Bursaux, E., et al. 378:197
Guesnon, P., see Poyart, C., et al. 376:169
Guieu, J.D., Hellon, R.F.
The Chill Sensation in Fever 384:103
Guillot, C., see Delpierre, S., et al. 379:53
Günther, R., Silbernagel, S., Deetjen, P.
Maleic Acid Induced Aminoaciduria, Studied by Free Flow Micropuncture and Continuous Microperfusion 382:109
Günther, R., Silbernagl, S.
Renal Handling of l-Histidine Studied by Continuous Microperfusion and Free Flow Micropuncture in the Rat 389:137
Gupta, B.N., Nier, K., Hensel, H.
Cold-Sensitive Afferents from the Abdomen 380:203
Güth, K., see Griffiths, P.J., et al. 382:165
Güth, K., see Griffiths, P.J., et al. 387:167
Gutmann, E., see Bass, A., et al. 379:203
Gutmann, E., see Hanzlíková, V. 379:209
Gutmann, E., see Vyskočil, F. 371:3
Gutsche, H.-U., Hegel, U.
Influence of Aldosterone on Epithelial Leakiness of Rat Proximal Tubules. Microconductivity Measurements 385:29
Gutsche, H.U., Müller-Suur, R., Hegel, U., Hierholzer, K.
Electrical Conductivity of Tubular Fluid of the Rat Nephron. Micropuncture Study of the Diluting Segment in situ 383:113
Gutsche, H.-U., Müller-Suur, R., Samwer, K.F., Beer, G., Hierholzer, K.
Tubuloglomerular Feedback Control in Kidneys of Adrenalectomized Rats 386:11
Gutsche, H.-U., see Mason, J., et al. 379:11
Györy, A.Z., see Brendel, U., et al. 372:77

Haack, D., Möhring, J.
Vasopressin-Mediated Blood Pressure Response to Intraventricular Injection of Angiotensin II in the Rat 373:167
Haase, W., Koepsell, H.
Substructure of Membrane-Bound Na^+ -K^+ -ATPase Protein 381:127
Haberich, F.J., Lingelbach, B.
Psychophysical Measurements Concerning the Range of Visual Perception 386:141
Häberle, D.A., Davis, J.M., Mayer, G.
Production of Microperfusion Pipettes Suitable for Use with Colourless Solutions 376:191
Häberle, D.A., Ruhland, G., Lausser, A., Moore, L., Neiss, A.
Influence of Glomerular Filtration Rate on Renal PAH Secretion Rate in the Rat Kidney. Dependency of PAH Extraction on Renal Filtration Fraction 375:131
Häberle, D.A., Schiffl, H., Mayer, G., Hennings, G., Rembold, H.
Renal Balance of Pterin Cofactors in the Rat. A Clearance and Micropuncture Study 375:9
Haeberle, D.A., see Bayer, H. v., et al. 384:39
Haest, C.W.M., Driessen, G.K., Kamp, D., Heidtmann, H., Fischer, T.M., Stöhr-Liesen, M.
Is "Deformability" a Parameter for the Rate of Elimination of Erythrocytes from the Circulation? 388:69
Haest, C.W.M., see Driessen, G.K., et al. 388:75
Hagemann, H., see Hirche, H., et al. 387:231
Hagerman, F.C., see Prince, F.P., et al. 371:161
Hainsworth, R., see Greenwood, P.V., et al. 386:199
Hainsworth, R., see Karim, F., et al. 383:79
Hales, J.R.S., Bennett, J.W., Fawcett, A.A.
Integrated Changes in Regional Circulatory Activity Evoked by Thermal Stimulation of the Hypothalamus 372:157
Hales, J.R.S., Fawcett, A.A., Bennett, J.W.
Radioactive Microsphere Partitioning of Blood Flow between Capillaries and Arteriovenous Anastomoses in Skin of Conscious Sheep 376:87
Hales, J.R.S., Fawcett, A.A., Bennett, J.W., Needham, A.D.
Thermal Control of Blood Flow Through Capillaries and Arteriovenous Anastomoses in Skin of Sheep 378:55

Hales, J.R.S., Iriki, M., Tsuchiya, K., Kozawa, E.
Thermally-Induced Cutaneous Sympathetic Activity Related to Blood Flow Through Capillaries and Arteriovenous Anastomoses 375:17
Hales, J.R.S., King, R.B., Fawcett, A.A.
Observations on the Validity of Using "NEN-TRAC" Microspheres for Measuring Organ Blood Flow 379:295
Hall, R.A., see Petersen, O.H., et al. 372:231
Hallbäck, I., see Kanstrup, I.-L. 390:179
Halle, M., see Lis, K., et al. 381:289
Hamann, K.-F., see Lannou, J., et al. 385:123
Hammel, H.T., see Simon-Oppermann, Ch., et al. 378:213
Hampel, W., see Greger, R. 389:175
Hamrell, B.B., Low, R.B.
The Relationship of Mechanical V_{max} to Myosin ATPase Activity in Rabbit and Marmot Ventricular Muscle 377:119
Hanna, B.D., see Lioy, F., et al. 374:187
Hansen, A.J., Gjedde, A., Siemkowicz, E.
Extracellular Potassium and Blood Flow in the Post-Ischemic Rat Brain 389:1
Hansen, L.L., Schilling, A.R., Wiederholt, M.
Effect of Calcium, Furosemide and Chlorothiazide on Net Volume Reabsorption and Basolateral Membrane Potential of the Distal Tubule 389:121
Hansen, L.L., see Wiederholt, M., et al. 388:169
Hanzlíková, V., see Bass, A., et al. 379:203
Hanzlíková, V., Gutmann, E.
Effects of Ischemia on Contractile and Histochemical Properties of the Rat Soleus Muscle 379:209
Hara, Y., Ito, Y.
The Electrical Activity Recorded From Smooth Muscle of the Circular Layer of the Human Stomach 382:145
Haras, Y.
Actions of Tetragastrin on Smooth Muscles of Human Stomach 386:127
Harbig, K., see Boldt, M., et al. 385:167
Harborne, A.J., Smith, M.E., Jones, R.
The Effect of Hydrolytic Enzymes on the Acetylcholine Sensitivity of the Skeletal Muscle Cell Membrane 377:147
Harder, D.R.
Membrane Activation of Smooth Muscle from Rabbit Basilar Artery by Dopamine 390:296
Harder, D.R., Sperelakis, N.
Membrane Electrical Properties of Vascular Smooth Muscle from the Guinea Pig Superior Mesenteric Artery 378:111
Hare, D., see Bayer, H. v., et al. 384:39
Hari, R.
Evoked Potentials Elicited by Long Vibrotactile Stimuli in the Human EEG 384:167
Harper, A.M., see Gregory, P.C., et al. 386:187
Harper, A.M., see Mathie, R.T., et al. 386:77
Harris, P.J.
Stimulation of Proximal Tubular Sodium Reabsorption by Ile^5 Angiotensin II in the Rat Kidney 381:83
Harris, R.C., Hultman, E., Sahlin, K.
Glycolytic Intermediates in Human Muscle After Isometric Contraction 389:277
Hartmann, R., Klinke, R.
Discharge Properties of Afferent Fibres of the Goldfish Semicircular Canal with High Frequency Stimulation 388:111
Hartmann, R., Klinke, R.
Efferent Activity in the Goldfish Vestibular Nerve and its Influence on Afferent Activity 388:123
Hartung, K., Stieve, H.
The Effect of Sodium Ions on the Light-Induced ^{86}Rb Release from the Isolated Crayfish Retina 387:225
Hasegawa, Y., see Sato, H. 372:195
Hasegawa, Y., see Sato, I., et al. 384:1
Hashimoto, K., see Ochi, R. 378:1
Hatano, Y., see Toda, N., et al. 374:73
Hatzfeld, C., see Bres, M. 371:227
Haulică, I.D., Brănişteanu, D.D., Petreşcu, G., Rosca, V.
Iso-Renin Secretion from Rat Brain Cortex Slices in vitro Under the Influence of Ions and Electrical Stimulation 373:15
Hawk, L., see Knight, T.F., et al. 373:139
Hayashi, S. see Toda, N., et al. 374:73
Haylett, J.P., Kashgarian, M.
A Micropuncture Study of the Renal Handling of Lithium 380:159
Haylett, J.P., see Hecht, B., et al. 377:69
Hazevoet, M., see Breepoel, P.M., et al. 389:219
Hazevoet, M., see Breepoel, P.M., et al. 389:227
Hecht, B., Kashgarian, M., Forrest, J.N. Jr., Haylett, J.P.
Micropuncture Study on the Effects of Lithium on Proximal and Distal Tubule Function in the Rat Kidney 377:69
Hegel, U., see Fromm, M. 378:71
Hegel, U., see Fromm, M., et al. 384:69
Hegel, U., see Gutsche, H.-U. 385:29
Hegel, U., see Gutsche, H.U., et al. 383:113
Heidenreich, O., see Greven, J., et al. 384:57
Heidenreich, O., see Greven, J., et al. 384:61
Heidt, H., see Stock, G., et al. 376:177
Heidtmann, H., see Driessen, G.K., et al. 380:1
Heidtmann, H., see Driessen, G.K., et al. 388:75
Heidtmann, H., see Haest, C.W.M., et al. 388:69
Heinle, H., see Knehr, H.E., et al. 387:73
Heintze, K., Petersen, K.-U., Busch, L.
Effects of Hydrostatic Pressure on Fluid Transfer by the Isolated Gallbladder 373:9
Heiber, R.
Elastic and Inelastic Behaviour of Resting Frog Muscle Fibres 387:261
Heller, J., Horácek, V.
Autoregulation of Superficial Nephron Function in the Alloperfused Dog Kidney 382:99
Heller, J., Horáček, V.
Comparison of Directly Measured and Calculated Glomerular Capillary Pressure in the Dog Kidney at Varying Perfusion Pressure 385:253
Heller, J., Horácek, V., Kasalický, J.
Renal Blood Flow Distribution at Varying Perfusion Pressure in the Alloperfused Dog Kidney 382:91
Hellman, B., Sehlin, J., Täljedal, I.-B.
Effects of Na^+, K^+ and Mg^{2+} on $^{45}Ca^{2+}$ Uptake by Pancreatic Islets 378:93
Hellon, R.F., see Guieu, J.D. 384:103
Hemptinne, A. de
The Current Voltage Relationship of the Delayed Outward Current in the Heart of the Frog (*Rana esculenta*) and the Tortoise (*Testudo germani*) 377:235
Hemptinne, A. de
Intracellular pH and Surface pH in Skeletal and Cardiac Muscle Measured with a Double-Barrelled pH Microelectrode 386:121
Hemptinne, A. de see Marrannes, R., et al. 389:199
Henderson, I.W., see Brown, J.A., et al. 377:101
Hendriks, F.F.A., Kroll, K., Schipperheyn, J.J., Quanjer, Ph.H.
Pulmonary Gas Exchange During Acute Myocardial Ischaemia. A Study in the Closed Chest Anaesthetized Dog 388:197
Hennemann, H.E., see Rubia, F.J. 375:125
Hennemann, H.E., Rubia, F.J.
Vagal Representation in the Cerebellum of the Cat 375:119
Hennings, G., see Häberle, D.A., et al. 375:9
Henquin, J.C.
Specificity of Divalent Cation Requirement for Insulin Release. Effects of Strontium 383:123
Henrich, H., Hertel, R., Assmann, R.
Structural Differences in the Mesentery Microcirculation between Normotensive and Spontaneously Hypertensive Rats 375:153
Henrich, H., see Assmann, R. 376:263
Hensel, H., see Bade, H., et al. 382:1
Hensel, H., see Braun, H.A., et al. 386:1

Hensel, H., see Gupta, B.N., et al. 380:203
Herbst, R., see Schnermann, J., et al. 379:269
Herker-See, A., see Loeschcke, H.H., et al. 381:249
Herker-See, A., see Schlaefke, M.E., et al. 381:241
Hermansen, L., see Bolitho Donaldson, S.K. 376:55
Hermansson, K., Larson, M., Källskog, Ö., Wolgast, M.
Influence of Renal Nerve Activity on Arteriolar Resistance, Ultrafiltration Dynamics and Fluid Reabsorption 389:85
Hermle, M., see Ploth, D.W., et al. 375:261
Hermle, M., see Schnermann, J., et al. 379:269
Hertel, R., see Henrich, H., et al. 375:153
Hertting, G., see Knepel, W., et al. 388:177
Herwaarden, C.L.A. van, Binkhorst, R.A., Fennis, J.F.M., Laar, A. van't
Reliability of the Cardiac Output Measurement with the Indirect Fick-Principle for CO_2 During Exercise 385:21
Herzig, J.W., Yamamoto, T., Rüegg, J.C.
Dependence of Force and Immediate Stiffness on Sarcomere Length and Ca^{2+} Activation in Frog Skinned Muscle Fibres 389:97
Herzig, J.W., see Yamamoto, T. 373:21
Hess, R.F., Campbell, F.W., Greenhalgh, T.
On the Nature of the Neural Abnormality in Human Amblyopia: Neural Aberrations and Neural Sensitivity Loss 377:201
Heuber-Metzger, S., see Metzger, H., et al. 388:21
Heukelon, J.S. van, see Albus, H., et al. 383:55
Heuse, D., see Chatelain, P., et al. 389:29
Heyman, M.A., see Macdonald, A.A., et al. 390:262
Hibl, B., see Gardiner, P.F., et al. 385:147
Hicks, K.O., see Bullivant, M., et al. 389:251
Hicquet, J., see Jank, K., et al. 371:175
Hierholzer, K., see Gutsche, H.U., et al. 383:113
Hierholzer, K., see Gutsche, H.-U., et al. 386:11
Higashio, T., see Yasuda, M., et al. 385:111
Higgins, Jr., J.T., Gebler, B., Frömter, E.
Electrical Properties of Amphibian Urinary Bladder Epithelia. II. The Cell Potential Profile in Necturus Maculosus 371:87
Hikida, R.S., see Prince, F.P., et al. 371:161
Hildmann, B., see Storelli, C., et al. 388:11
Hiley, C.R., see Yates, M.S. 379:219
Hill, C.D., see Favilla, M., et al. 384:193
Hiller, U.
Morphology and Electrophysiological Properties of Cutaneous Sensilla in Agamid Lizards 377:189
Hilton, S.M., Hnik, P.
Professor Ernest Gutmann, M.D., D.Sc. – An Obituary 374:1
Hinghofer-Szalkay, H., see Kirsch, K.A., et al. 383:189
Hinghofer-Szalkay, H., see Kirsch, K., et al. 383:195
Hinzen, D.H., see Hipp, F.X., et al. 385:45
Hipp, F.X., Gielen, W., Davies, M.A., Hinzen, D.H.
Blocking Action of Intracellulary Injected Neuraminidase on Central Synapses in vivo 385:45
Hirche, H., Schumacher, E., Hagemann, H.
Extracellular K^+ Concentration and K^+ Balance of the Gastrocnemius Muscle of the Dog During Exercise 387:231
Hissa, R., see Pyörnilä, A., et al. 377:51
Hnik, P., see Hilton, S.M. 374:1
Hoar, P.E., see Cassidy, P., et al. 387:115
Hoar, P.E., see Kerrick, W.G.L., et al. 381:53
Hoar, P.E., see Kerrick, W.G.L., et al. 386:207
Hofbauer, K.G., see Konrads, A., et al. 377:81
Hoff, W., see Fischer, F.H., et al. 373:179
Hoffmeister, B., Hussels, W., Jänig, W.
Long-Lasting Discharge of Postganglionic Neurones to Skin and Muscle of the Cat's Hindlimb after Repetitive Activation of Preganglionic Axons in the Lumbar Sympathetic Trunk 376:15
Hohlbrugger, G., see Olbricht, C., et al. 372:251
Hohlfeld, R., Sterz, R., Kalies, I., Peper, K., Wekerle, H.
Neuromuscular Transmission in Experimental Autoimmune Myasthenia Gravis (EAMG). Quantitative Ionophoresis and Current Fluctuation Analysis at Normal and Myasthenic Rat End-Plates 390:156
Holle, J.P., see Meyer, M., et al. 376:237
Holst, J., see Järhult, J. 383:41
Holtz, J., Mayer, E., Bassenge, E.
Demonstration of Alpha-Adrenergic Coronary Control in Different Layers of Canine Myocardium by Regional Myocardial Sympathectomy 372:187
Holtz, J., Restorff, W.V., Bassenge, E., Kolin, A.
Phasic Registration of Venous Diameter Changes in-situ with the Induction Angiometer 377:177
Holtz, J., see Restorff, W. von, et al. 372:181
Hömberg, V., see Grünewald, G., et al. 381:39
Honda, Y., see Fukuda, Y., et al. 376:229
Honda, Y., see Fukuda, Y., et al. 388:53
Hoofd, L.J.C., see Koning, J. de, et al. 389:211
Hoofd, L., see Spaan, J.A.E., et al. 384:231
Hope, A., see Rosivall, L., et al. 390:216
Horácek, V., see Heller, J. 382:99
Horácek, V., see Heller, J., et al. 382:91
Horáček, V., see Heller, J. 385:253
Horcholle-Bossavit, G., see Guégan, M. 389:143
Hori, T.
Thermosensitivity of Preoptic and Anterior Hypothalamic Neurons in the Capsaicin-Desensitized Rat 389:297
Hori, T., Tsuzuki, S.
Thermoregulation in Adult Rats Which have been Treated with Capsaicin as Neonates 390:219
Horn, G.J. van den, see Borgdorff, P., 386:193
Hörnicke, H., Engelhardt, W.v., Ehrlein, H.-J.
Effect of Exercise on Systemic Blood Pressure and Heart Rate in Horses 372:95
Horster, M.
Loop of Henle Functional Differentiation in vitro Perfusion of the Isolated Thick Ascending Segment 378:15
Horster, M.
Primary Culture of Mammalian Nephron Epithelia. Requirements for Cell Outgrowth and Proliferation from Defined Explanted Nephron Segments 382:209
Horster, M., Schmid, H., Schmidt, U.
Aldosterone in vitro Restitutes Nephron Na-K-ATPase of Distal Segments from Adrenalectomized Rabbits 384:203
Horster, M., see Wisser, J. 373:205
Horvath, S.M., see Borgia, J.F. 377:143
Hosser, M., see Scharrer, E. 388:165
Hossmann, K.-A., see Leniger-Follert, E. 380:85
Hotta, K., see Sato, I., et al. 384:1
Houston, M.E., see Thomson, J.A., et al. 379:105
Houvenaghel, A., see Schrauwen, E. 386:281
Howell, J.R., see Huf, E.G., et al. 385:243
Howson, M.G., see Metias, E.F., et al. 389:243
Hsu, C.H., see Kurtz, T.W. 377:229
Huf, E.G., Howell, J.R., Baskerville, F.B.
Multicompartment Kinetic Analysis of the Amiloride Block of Na^+ Fluxes in Frog Skin 385:243
Hughes, A., Caille, D., Vibert, J.F.
A Statistical Analysis and Comparison of Soma Diameter Spectra for Classical Neurones from Different Regions of the Cat Retinal Ganglion Cell Layer 388:239
Hughes, R.L., Mathie, R.T., Campbell, D., Fitch, W.
Systemic Hypoxia and Hyperoxia, and Liver Blood Flow and Oxygen Consumption in the Greyhound 381:151
Huguenin, F., see Reber, W. 371:179
Hulsbosch, M.A.M., Binkhorst, R.A., Folgering, H.Th.
Three Successive Steady-State CO_2-Response Curves. No Change of Sensitivity of the Ventilatory Controlling System for CO_2 378:85
Hultman, E., see Harris, R.C., et al. 389:277
Hultman, E., see Sahlin, K., et al. 374:193
Humar, M., Kordaš, M., Melik, Ž.
The Effect of Papaine on the Time Course of the End-Plate Current 386:67

Humes, H.D., Weinberg, J.M.
Ionophore A23187 Induced Reductions in Toad Urinary Bladder Epithelial Cell Oxidative Phosphorylation and Viability. Implications for A23187 Related Declines in Epithelial Active Transport 388:217
Humpeler, E., see Mairbäurl, H. 383:209
Humpeler, E., Vogel, S.
Oxygen Affinity of Hemoglobin in Postmenopausal Woman 372:287
Hunziker, W., Blum, J.W., Fischer, J.A.
Plasma Kinetics of Exogenous Bovine Parathyroid Hormone in Calves 371:185
Hussels, W., see Hoffmeister, B., et al. 376:15
Hutton, J.C., see Malaisse, W.J., et al. 373:237
Hwang, J.C., Leung, A.F., Cheung, Y.M.
Estimation of Changes in Single Muscle Fibre Diameter in Different Solutions by Diffraction Studies 390:70
Hwang, J.C., see Cheung, Y.M., et al. 379:101

Iida, Y., see Tankano, N., et al. 390:56
Iino, Y., Imai, M.
Effects of Prostaglandins on Na Transport in Isolated Collecting Tubules 373:125
Ikemoto, Y.
Reduction by Thiopental of the Slow-Channel-Mediated Action Potential of Canine Papillary Muscle 372:285
Ildefonse, M., see Bonvallet, R., et al. 390:237
Ildefonse, M., see Caillé, J., et al. 374:167
Ildefonse, M., see Caillé, J., et al. 379:117
Imai, M.
Calcium Transport across the Rabbit Thick Ascending Limb of Henle's Loop Perfused in vitro 374:255
Imai, M.
Effects of Parathyroid Hormone and N^6,O^2-Dibutyryl Cyclic AMP on Ca^{2+} Transport Across the Rabbit Distal Nephron Segments Perfused in vitro 390:145
Imai, M., see Iino, Y. 373:125
Imai, M., see Sasaki, S. 383:215
Ioffe, S., Jansen, A.H., Russel, B.J., Chernick, V.
Respiratory Response to Somatic Stimulation in Fetal Lambs During Sleep and Wakefulness 388:143
Ioffe, S., Jansen, A.H., Russel, B.J., Chernick, V.
Sleep, Wakefulness and the Monosynaptic Reflex in Fetal and Newborn Lambs 388:149
Iriki, M., see Hales, J.R.S., et al. 375:17
Iriki, M., see Tsuchiya, K. 388:233
Irisawa, H., see Noma, A., et al. 372:43
Irisawa, H., see Noma, A., et al. 388:1
Irisawa, H., see Yanagihara, K. 385:11
Irisawa, H., see Yanagihara, K. 388:255
Isaia, J., see Katz, U., et al. 390:299
Isenberg, G.
Cardiac Purkinje Fibres. Resting, Action, and Pacemaker Potential under the Influence of $[Ca^{2+}]$; as Modified by Intracellular Injection Techniques 371:51
Isenberg, G.
Cardiac Purkinje Fibres. The Slow Inward Current Component under the Influence of Modified $[Ca^{2+}]$ 371:61
Isenberg, G.
Cardiac Purkinje Fibres. $[Ca^{2+}]$; Controls Steady State Potassium Conductance 371:71
Isenberg, G.
Cardiac Purkinje Fibres. $[Ca^{2+}]$; Controls the Potassium Permeability via the Conductance Components g_{k1} and g_{k2} 371:77
Isenberg, G.
Risk and Advantages of Using Strongly Beveled Microelectrodes for Electrophysiological Studies in Cardiac Purkinje Fibres 380:91
Isenberg, G., see Vereecke, J., et al. 384:207
Ishikawa, Y., see Nakayama, T., et al. 380:59
Israel, M., Lesbats, B., Manaranche, R.
Quantitative Description of Acetylcholine Release and Fluctuations in Nerve Terminals of Torpedo Electric Organ Submitted to Stimulation 377:117
Ito, Y., see Hara, Y. 382:145
Ivanova, L.N., see Tyryshina, E.M., et al. 390:270
Iwatsuki, N., Petersen, O.H.
Intracellular Ca^{2+} Injection Causes Membrane Hyperpolarization and Conductance Increase in Lacrimal Acinar Cells 377:185
Iwatsuki, N., Petersen, O.H.
Direct Visualization of Cell to Cell Coupling: Transfer of Fluorescent Probes in Living Mammalian Pancreatic Acini 380:277
Iwatsuki, N., Petersen, O.H.
Amino Acid-Evoked Membrane Potential and Resistance Changes in Pancreatic Acinar Cells 386:153
Iwatsuki, N., see Roberts, M.L., et al. 376:159

Jackson, B.A., see Brown, J.A., et al. 377:101
Jacquot, C., see Prioux-Guyonneau, M., et al. 380:127
Jäger, K., see Bolinger, A., et al. 382:137
James, W.P.T., see Trayhurn, P. 373:189
Jamison, R.L., see Poujeol, P., et al. 387:27
Jammes, Y., see Delpierre, S., et al. 379:53
Jancsó-Gábor, A., see Obál, F., Jr., et al. 382:249
Jancsó-Gábor, A., see Obál, F., Jr., et al. 387:183
Jänig, W., Kümmel, H.
Functional Discrimination of Postganglionic Neurones to the Cat's Hindpaw with Respect to the Skin Potentials Recorded from the Hairless Skin 371:217
Jänig, W., Spilok, N.
Functional Organization of the Sympathetic Innervation Supplying the Hairless Skin of the Hindpaws in Chronic Spinal Cats 377:25
Jänig, W., see Hoffmeister, B., et al. 376:15
Jank, K., Musoglu, E., Hicquet, J., Demeester, M.
A Multi-Sensor Support for in vivo Monitoring of Blood Parameters with in situ Sensor Calibration 371:175
Jansen, A.H., see Ioffe, S., et al. 388:143
Jansen, A.H., see Ioffe, S., et al. 388:149
Jansen, J.R.C., see Zwart, A., et al. 375:213
Järhult, J., Holst, J.
The Role of the Adrenergic Innervation to the Pancreatic Islets in the Control of Insulin Release During Exercise in Man 383:41
Jeanrenaud, B., see Seydoux, J., et al. 390:1
Jelkmann, W., Bauer, C.
Oxygen Affinity and Phosphate Compounds of Red Blood Cells during Intrauterine Development of Rabbits 372:149
Jelkmann, W., Bauer, C.
High Pyruvate Kinase Activity Causes Low Concentration of 2,3-Diphosphoglycerate in Fetal Rabbit Red Cells 375:189
Jelkmann, W., Bauer, C.
Embryonic Hemoglobins: Dependency of Functional Characteristics on Tetramer Composition 377:75
Jelkmann, W., Bauer, C.
2,3-DPG Levels in Relation to Red Cell Enzyme Activities in Rat Fetuses and Hypoxic Newborns 389:61
Jensen, P.K., Steven, K.
Influence of Intratubular Pressure on Proximal Tubular Compliance and Capillary Diameter in the Rat Kidney 382:179
Jéquier, E., see Ravussin, E., et al. 382:197
Jercnen, E., see Pyörnilä, A., et al. 377:51
Jessen, C., see Mercer, J.B. 373:259
Jessen, C., see Mercer, J.B. 374:179
Jessen, C., see Puschmann, S. 373:59
Johansen, K., see Bech, C., et al. 385:269
Johns, C., see Gennari, F.J., et al. 387:69
Johnston, I.A., Walesby, N.J., Davison, W., Goldspink, G.
Further Studies on the Adaptation of Fish Myofibrillar ATPases to Different Cell Temperatures 371:257

Johnston, I., see Boyes, G. 381:195
Johnstone, B.M., see Robertson, D. 380:7
Jones, R., see Harborne, A.J., et al. 377:147
Jong, W. de, see Berg, R.G.M. ten 380:133
Jong, W. de, see Berg, R.G.M. ten, 385:211
Jong, W. de, see Zandberg, P., et al. 372:169
Jordan, D., see Rousset, B., et al. 375:177
Jéquier, E., see Ravussin, E., et al. 382:197

Kachelhoffer, J., see Pousse, A., et al. 381:15
Kaczmarczyk, G., Drake, A., Eisele, R., Mohnhaupt, R., Noble, M.I.M., Simgen, B., Stubbs, J., Reinhardt, H.W.
The Role of the Cardiac Nerves in the Regulation of Sodium Excretion in Conscious Dogs 390:125
Kaczmarczyk, G., Eigenheer, F., Gatzka, M., Kuhl, U., Reinhard, H.W.
No Relation between Atrial Natriuresis and Renal Blood Flow in Conscious Dogs 373:49
Kaczmarczyk, G., Schimmrich, B., Mohnhaupt, R., Reinhardt, H.W.
Atrial Pressure and Postprandial Volume Regulation in Conscious Dogs 381:143
Kaczmarczyk, G., Unger, V., Mohnhaupt, R., Reinhardt, H.W.
Left Atrial Distension and Intrarenal Blood Flow Distribution in Conscious Dogs 390:44
Kaczmarczyk, G., see Reinhardt, H.W., et al. 384:171
Kaczmarczyk, G., see Reinhardt, H.W., et al. 389:9
Kain, H., see Mason, J., et al. 380:233
Kalies, I., see Hohlfeld, R., et al. 390:156
Källskog, Ö., see Hermansson, K., et al. 389:85
Kamm, K.E., Casteels, R.
Activation of Contraction of Arterial Smooth Muscle in the Presence of Nitrate and Other Anions 381:63
Kamp, D., see Driessen, G.K., et al. 388:75
Kamp, D., see Haest, C.W.M., et al. 388:69
Kanstrup, I.-L., Hallbäck, I.
Cardiac Output Measured by Acetylene Rebreathing Technique at Rest and during Exercise. Comparison of Results Obtained by Various Calculation Procedures 390:179
Kapteina, F.W., Motz, W., Schwartz-Porsche, D., Gauer, O.H.
Comparison of Renal Responses to 5% Saline Infusions into Vena portae and Vena cava in Conscious Dogs 374:23
Karim, F., Araneda, G., Hainsworth, R.
The Influence of Perfusate Temperature on the Responses of a Superficial Vein in the Carotid Baroreceptor Reflex in Dogs 383:79
Karim, F., see Greenwood, P.V., et al. 386:199
Karpenko, D.O., Krolenko, S.A.
Inhibition of Caffeine Contractures of Slow Rat Muscles by Urea and Its Derivatives 384:99
Kasalický, J., see Heller, J., et al. 382:91
Kashgarian, M., see Hayslett, J.P. 380:159
Kashgarian, M., see Hecht, B., et al. 377:69
Kastendieck, E., see Moll, W., et al. 377:225
Kato, S., see Negishi, K., et al. 375:53
Kato, S., see Negishi, K., et al. 375:61
Katz, U., Garcia-Romeu, F., Masoni, A., Isaia, J.
Active Transport of Urea Across the Skin of the Euryhaline Toad, *Bufo viridis* 390:299
Katz, U., see Rick, R., et al. 385:1
Kawai, Y., see Ohhashi, T., et al. 375:183
Kawano, M., see Nosaka, S., et al. 379:281
Kawazu, S., Boschero, A.C., Delcroix, C., Malaisse, W.J.
The Stimulus-Secretion Coupling of Glucose-Induced Insulin Release. XXVIII. Effect of Glucose on Na^+ Fluxes in Isolated Islets 375:197
Kawazu, S., see Malaisse, W.J., et al. 373:237
Keller, O., see Ujec, E., et al. 382:189
Kemper, R., see Osswald, H., et al. 371:45
Kentera, D., see Sušić, D. 389:301
Kentera, D., see Sušić, D. 384:283
Kerényi, Á., see Farsang, C., et al. 379:223
Kerényi, Á., see Farsang, C., et al. 380:211
Kerrick, W.G.L., Hoar, P.E., Malencik, D.A., Stamps, L., Fischer, E.H.
Characterization of Ca^{2+}- and Sr^{2+}-Activated Tension in Functionally Skinned Chicken Fibers of Normal and Dystrophic Skeletal and Normal Cardiac Muscle 381:53
Kerrick, W.G.L., Malencik, D.A., Hoar, P.E., Potter, J.D., Colby, R.L., Pocinwong, S., Fischer, E.H.
Ca^{2+} and Sr^{2+} Activation: Comparison of Cardiac and Skeletal Muscle Contraction Models 386:207
Kerrick, W.G.L., see Cassidy, P., et al. 387:115
Kerrick, W.G.L., see Robertson, S.P. 380:41
Kerrick, W.G.L., see Secrist, D.J. 384:219
Kerrick, W.G.L., see Su, J.Y. 375:111
Kerrick, W.G.L., see Su, J.Y. 380:29
Keßler, H., see Rimmel, C., et al. 376:105
Kille, J.F., see Schlaefke, M.E., et al. 378:231
King, R.B., see Hales, J.R.S., et al. 379:295
Kinne, R., see Brendel, U., et al. 372:77
Kinne, R., see Eveloff, J., et al. 378:87
Kinne, R., see Eveloff, J., et al. 389:263
Kinne, R., see Stoll, R., et al. 380:47
Kinne-Saffran, E., see Eveloff, J., et al. 378:87
Kinter, W.B., see Eveloff, J., et al. 378:87
Kirby, R.L., see Bonen, A., et al. 380:205
Kirchheim, H., see Gross, R. 383:233
Kirchheim, H., see Gross, R., et al. 379:81
Kirsch, K., Merke, J., Hinghofer-Szalkay, H.
Fluid Volume Distribution Within Superficial Shell Tissues Along Body Axis During Changes of Body Posture in Man. The Application of a New Miniature Plethysmographic Method 383:195
Kirsch, K.A., Merke, J., Hinghofer-Szalkay, H.
A New Miniature Plethysmograph to Measure Volume Changes in Small Circumscribed Tissue Areas 383:189
Kirsch, K.A., Merke, J., Rambo, N., Wicke, H.J.
Tissue Compliance in Superficial Tissues Along Body Axis in Man 387:239
Kiwull, P., see Kiwull-Schöne, H. 381:1
Kiwull, P., see Kiwull-Schöne, H., et al. 390:63
Kiwull-Schöne, H., Kiwull, P.
The Role of the Vagus Nerves in the Ventilatory Response to Lowered P_aO_2 with Intact and Eliminated Carotid Chemoreflexes 381:1
Kiwull-Schöne, H., Ward, S.A., Kiwull, P.
The Involvement of Expiratory Termination in the Vagally Mediated Facilitation of Ventilatory CO_2 Responsiveness during Hyperoxia 390:63
Kleinert, H.D., Scales, J.L., Weiss, H.R.
Effects of Carbon Monoxide or Low Oxygen Gas Mixture Inhalation on Regional Oxygenation, Blood Flow, and Small Vessel Blood Content of the Rabbit Heart 383:105
Klempt, P., Peiper, U.
The Dynamics of Cross-Bridge Movement in Vascular Smooth Muscle Estimated from a Single Isometric Contraction of the Portal Vein: The Influence of Temperature and Calcium 378:31
Klempt, P., see Peiper, U., et al. 378:25
Klinke, R., see Hartmann, R. 388:111
Klinke, R., see Hartmann, R. 388:123
Klöss, S., see Ullrich, K.J., et al. 372:269
Klöss, S., see Ullrich, K.J., et al. 375:9
Klöss, S., see Ullrich, K.J., et al. 377:33
Klöss, S., see Ullrich, K.J., et al. 383:159
Klöss, S., see Ullrich, K.J., et al. 387:127
Knehr, H.E., Heinle, H., Betz, E.
Enhanced Oxygen Uptake and Lactate Production of Smooth Muscle 387:73
Knepel, W., Nutto, D., Hertting, G.
Evidence for the Involvement of a GABA-Mediated Inhibition in the Hypovolaemia-Induced Vasopressin Release 388:177

Knight, T.F., Sonsom, S., Hawk, L., Frankfurt, S.J., Weinman, E.J.
The Effects of Anesthesia on the Excretion of an Isotonic Saline Load in the Rat 373:139
Knop, N., see Landsman, M.L.J., et al. 373:273
Knop, N., see Landsman, M.L.J., et al. 379:59
Koch Jensen, P., Steven, K.
Angiotensin II Induced Reduction of Peritubular Capillary Diameter in the Rat Kidney 371:245
Koepsell, H., see Haase, W. 381:127
Kohl, J., Koller, E.A.
Stretch Receptor Activity during Irritant-Induced Tachypnoea in the Rabbit 386:231
Köhler, G., Lindl, T.
Effects of 5-Hydroxytryptamine, Dopamine, and Acetylcholine on Accumulation of Cyclic AMP and Cyclic GMP in the Anterior Byssus Retractor Muscle of *Mytilus edulis* L. (Mollusca) 383:257
Kolin, A.
A System for Intravascular, Radially Orientation-Independent Electromagnetic Flow- and Diameter-Sensing 372:109
Kolin, A.
Stem Compensation of Loop Sensors for Electromagnetic Blood Flow and Vascular Diameter Measurement 386:93
Kolin, A., see Holtz, J., et al. 377:177
Koller, E.A., see Delmore, G. 372:1
Koller, E.A., see Kohl, J. 386:213
Kölling, K., see Riemer, J., et al. 372:243
König, W., see Chatelain, P., et al. 389:21
Koning, J. de, Hoofd, L.J.C., Kreuzer, F.
Oxygen Transport and the Function of Myoglobin. Theoretical Model and Experiments in Chicken Gizzard Smooth Muscle 389:211
Konrads, A., Hofbauer, K.G., Werner, U., Gross, F.
Effects of Vasopressin and Its Deamino-d-Arginine Analogue on Renin Release in the Isolated Perfused Rat Kidney 377:81
Koop, U., Aurell, M., Nilsson, I.-M., Ablad, B.
The Role of Beta-1-Adrenoceptors in the Renin Release Response to Graded Renal Sympathetic Nerve Stimulation 387:107
Koppenhöfer, E., Schumann, H.
A Method for Increasing the Frequency Response of Voltage Clamped Myelinated Nerve Fibres 390:288
Kordaš, M., see Humar, M., et al. 386:67
Kössler, F., see Caffier, G., et al. 383:87
Kostial, K., see Blanuša, M., et al. 375:239
Kotake, H., see Noma, A., et al. 388:1
Kots, J.M., see Berdina, N.A., et al. 378:149
Kotz, Y.M., Rodionov, I.M., Sitnikov, B.F., Tkhorevsky, V.I., Vinogradova, O.L.
On the Mechanism of an Increase of Muscle Performance and of Vasodilation during Emotional Stress in Man 373:211
Koubenec, H.-J., Risch, W.D., Gauer, O.H.
Effective Compliance of the Circulation in the Upright Sitting Posture 374:121
Koubenec, H.-J., see Risch, W.D. et al. 374:115
Koubenec, H.-¹., see Risch, W.D., et al. 374:119
Kovács, T., Pfliegler, G., Szabó, B.
The Subcellular Location of Potassium Flux Pathways in Frog Skeletal Muscle 390:250
Köver, G., Tost, H.
The Effect of Indomethacin on Kidney Function: Indomethacin and Furosemide Antagonism 372:215
Kozawa, E., see Hales, J.R.S., et al. 375:17
Kozlowski, S., Budohoski, L., Pohoska, E., Nazar, K.
Lipoprotein Lipase Activity in the Skeletal Muscle During Physical Exercise in Dogs 382:105
Krausz, S.
A Pharmacological Study of the Control of Nasal Cooling in the Dog 372:115
Krausz, S., Sullivan, S.F.
Cardiorespiratory Effects of Hypothermia and Bicarbonate Alkalosis 388:79
Kreal, B.K. van, see Dijk, J.P. van 377:217
Kreuter, F., Richter, D.W., Camerer, H., Senekowitsch, R.
Morphological and Electrical Discription of Medullary Respiratory Neurons of the Cat 372:7
Kreutzberg, G.W., see Schrader, J., et al. 387:245
Kreuzer, F., see Breepoel, P.M., et al. 389:219
Kreuzer, F., see Breepoel, P.M., et al. 389:227
Kreuzer, F., see Folgering, H., et al. 375:1
Kreuzer, F., see Frans, A., et al. 380:35
Kreuzer, F., see Koning, J. de, et al. 389:211
Kreuzer, F., see Spaan, J.A.E., et al. 384:231
Kreuzer, F., see Spaan, J.A.E., et al. 384:241
Kreuzer, F., see Turek, Z., et al. 374:285
Kreuzer, F., see Turek, Z., et al. 376:209
Kreuzer, F., see Turek, Z., et al. 376:7
Kreuzer, F., see Turek, Z., et al. 376:201
Kreuzer, F., see Turek, Z., et al. 384:109
Kreuzer, F., see Verstappen, F.T.J., et al. 374:125
Kreuzer, F., see Verstappen, F.T.J., et al. 374:131
Kroese, A.B.A., Van der Zalm, J.M., Van den Bercken, J.
Frequency Response of the Lateral-Line Organ of Xenopus Laevis 375:167
Kroese, A.J., see Andersen, P. 375:245
Krolenko, S.A., see Karpenko, D.O. 384:99
Krolicki, L., Leniger-Follert, E.
Oxygen Supply of the Brain Cortex (Rat) During Severe Hypoglycemia 387:121
Kroll, K., see Hendriks, F.F.A., et al. 388:197
Krone, W., see Seitz, H.J., et al. 389:115
Krönert, H., Wurster, R.D., Pierau, Fr.-K., Pleschka, K.
Vasodilatory Response of Arteriovenous Anastomoses to Local Cold Stimuli in the Dog's Tongue 388:17
Kruszyna, R., see Smith, R.P., et al. 380:65
Kuba, K., Nishi, S.
Characteristics of Fast Excitatory Postsynaptic Current in Bullfrog Sympathetic Ganglion Cells 378:205
Kuba, K., see Ohta, Y. 386:29
Kubát, K., see Turek, Z., et al. 376:209
Küchler, G., see Caffier, G., et al. 383:87
Kuhl, U., see Kaczmarczyk, G., et al. 373:49
Kuhn, H.J., see Griffiths, P.J., et al. 382:155
Kuhn, H.J., see Griffiths, P.J., et al. 382:165
Kuhn, H.J., see Griffiths, P.J., et al. 387:167
Kühn, P., see Pleschka, K., et al. 382:255
Kümmel, H., see Jänig, W. 371:217
Kurahashi, M., see Kuroshima, A., et al. 381:113
Kurdy, N.M.G., see Thompson, J., et al. 380:197
Kuroshima, A., Kurahashi, M., Yahata, T.
Calorigenic Effects of Noradrenaline and Glucagon on White Adipocytes in Cold- and Heat-Acclimated Rats 381:113
Kurtz, T.W., Hsu, C.H.
Impaired Distal Nephron Acidification in Chronically Phosphate Depleted Rats 377:229
Kurtzman, N.A., see Arruda, J.A.L., et al. 376:193
Kurtzman, N.A., see Westenfelder, C., et al. 386:161
Kuschinsky, W., Wahl, M.
Perivascular pH and Pial Arterial Diameter During Bicuculline Induced Seizures in Cats 382:81
Kuschinsky, W., see Duling, B.R., et al. 383:29
Kuschinsky, W., see Schneider, W., et al. 372:103
Kuschinsky, W., see Schrader, J., et al. 387:245
Kuschinsky, W., see Wahl, M. 382:203
Kuzminykh, L.P., see Mazhbich, B.I., et al. 382:171
Kwant, G., see Landsman, M.L.J., et al. 373:273
Kwant, G., see Oeseburg, B., et al. 386:95
Kwarts, E., see Gazendam, J. 386:71

Laak, J.J. ter, see Thijssen, J.M., et al. 373:199
Laar, A. van't, see Herwaarden, C.L.A. van, et al. 385:21
Lacour, B., see Drüeke, T., et al. 373:249
Lacroix, S., see Lebrec, D., et al. 387:67

Lafortuna, C.L., see Saibene, F., et al. 378:65
Lahlou, B., see Fossat, B. 379:287
Lam, P.H.M., see Mathie, R.T., et al. 386:77
Lamina-Donin, C.L., see Schettino, T., et al. 387:269
Landis, C.A., see Putney, J.W. Jr., et al. 385:131
Landsman, M.L.J., Knop, N., Kwant, G., Mook, G.A., Zijlstra, W.G.
A Fiberoptic Reflection Oximeter 373:273
Landsman, M.L.J., Knop, N., Mook, G.A., Zijlstra, W.G.
A Fiberoptic Reflection Densitometer with Cardiac Output Calculator 379:59
Lang, F., Quehenberger, P., Greger, R., Oberleithner, H.
Effect of Benzolamide on Luminal pH in Proximal Convoluted Tubules of the Rat Kidney 375:39
Lang, F., Quehenberger, P., Greger, R., Silbernagl, S., Stockinger, P.
Evidence for a Bicarbonate Leak in the Proximal Tubule of the Rat Kidney 386:239
Lang, F., see Greger, R., et al. 374:153
Lang, F., see Greger, R., et al. 374:243
Lang, F., see Greger, R., et al. 384:105
Lang, F., see Oberleithner, H., et al. 374:249
Lang, F., see Oberleithner, H., et al. 379:37
Lange, S., see Risch, W.D. et al. 374:115
Lange, S., see Risch, W.D., et al. 374:119
Lannou, J., Cazin, L., Hamann, K.-F.
Response of Central Vestibular Neurons to Horizontal Linear Acceleration in the Rat 385:123
Lannou, J., see Cazin, L., et al. 384:19
Lannou, J., see Cazin, L., et al. 384:31
Lannou, J., see Cazin, L., et al. 386:221
LaRochelle, F.T., Jr., North, W.G., Stern, P.
A New Extraction of Arginine Vasopressin from Blood. The Use of Octadecasilyl-Silica 387:79
Larson, M., see Hermansson, K., et al. 389:85
Laugier, R., Papp, A., Demol, P., Charbit, J.-J., Sarles, H.
Pancreatic Secretory Response to Cholecystokinin-Pancreozymin and Caerulein in the Conscious Rat 384:83
Laugier, R., Petersen, O.H.
Effects of Intracellular EGTA Injection on Stimulant Evoked Membrane Potential and Resistance Changes in Pancreatic Acinar Cells 386:147
Launay, J.F., see Bauduin, H., et al. 372:69
Laury, M.C., Portet, R.
Effects of a Chronic Corticotropin Treatment on Brown Adipose Tissue of Cold Acclimated Rats 384:159
Lausser, A., see Häberle, D.A., et al. 375:131
Law, R.O., see Rowen, D. 390:152
Lawson, D.E.M., see Wilson, P.W. 389:69
Leaf, A., see Frega, N.S., et al. 381:159
Leal Pinto, E., see González, E., et al. 383:165
Lebedev, V.P., Petrov, V.I., Skobelev, V.A.
Do Sympathetic Preganglionic Neurones Have a Recurrent Inhibitory Mechanism? 383:91
Lebrec, D., Lacroix, S., Benhamou, J.-P.
Hepatic Vein Catheterization in the Rat 387:67
Lechene de la Porte, P., see Pap, A., et al. 383:19
Lechner, A.J., see Aquin, L., et al. 385:223
Lederer, W.J., Spindler, A.J., Eisner, D.A.
Thick Slurry Bevelling. A new Technique for Bevelling Extremely Fine Microelectrodes and Micropipettes 381:287
Lee, W.M., see Wong, P.Y.D., et al. 387:61
Lehmann, N., Schmidt, H.
Contractile Responses to Direct Stimulation of Frog Slow Muscle Fibres Before and After Denervation 382:43
Lei, F.H., see Lucas, M.L., et al. 385:137
Leichtweiß, H.-P., Schröder, H.
l-Lactate and d-Lactate Carriers on the Fetal and the Maternal Side of the Trophoblasts in the Isolated Guinea Pig Placenta 390:80
Leichtweiss, H.-P., Schröder, H.
The Effect of Elevated Outflow Pressure on Flow Resistance and the Transfer of THO, Albumin and Glucose in the Isolated Guinea Pig Placenta 371:251
Lenfant, J., Goupil, N.
Effects of the Replacement of Chloride by Methylsulphate on the Membrane Currents in Frog Atrial Trabeculae 372:121
Leniger-Follert, E.
Direct Determination of Local Oxygen Consumption of the Brain Cortex in vivo 372:175
Leniger-Follert, E., Hossmann, K.-A.
Simultaneous Measurements of Microflow and Evoked Potentials in the Somatomotor Cortex of the Cat Brain During Specific Sensory Activation 380:85
Leniger-Follert, E., see Krolicki, L. 387:121
Leniger-Follert, E., see Urbanics, R., et al. 378:47
Leray, C., see Colin, D.A. 383:35
Lesbats, B., see Israel, M., et al. 377:117
Leung, A.F., see Hwang, J.C., et al. 390:70
Leusen, I., see Marrannes, R., et al. 389:199
Lewartowski, B., Prokopczuk, A., Pytkowski, B.
Effect of Inhibitors of Slow Calcium Current on Rested State Contraction of Papillary Muscles and Post Rest Contractions of Atrial Muscle of the Cat and Rabbit Hearts 377:167
Lherminier, M., Alvarado, F.
Virtual Elimination of the Interference of Unstirred Water Layers on Intestinal Sugar Transport Kinetics by Use of the Tissue Accumulation Method at Appropriate Shaking Rates 389:155
L'Herminier, M., see Alvarado, F., et al. 382:35
Lichey, H.-J., see Wiederholt, M., et al. 388:169
Lieberman, E.M.
Effect of External Potassium on the Coupled Sodium: Potassium Transport Ratio of Axons 378:243
Liedgren, S.R.C., see Rubin, A.M., et al. 371:155
Liegl, O., see Fischer, F.H., et al. 373:179
Liew, J.B. van, see Bayer, H. v., et al. 384:39
Lijnen, P.J., see Fagard, R.H., et al. 374:199
Lin, M.T.
Effects of Sodium Acetylsalicylate on Thermoregulatory Responses of Rats to Different Ambient Temperatures 378:181
Lin, M.T., Chern, Y.F., Chen, F.F., Su, C.Y.
Serotoninergic Mechanisms of Beta-Endorphin-Induced Hypothermia in Rats 382:87
Lin, M.T., Chow, C.F., Chern, Y.F., Wu, K.M.
Elevating Serotonin Levels in Brain with 5-Hydroxytryptophan Produces Hyperthermia in Rats 377:245
Linas, S.L., Berl, T., Aisenbrey, G.A., Better, O.S., Anderson, R.J.
The Effect of Anesthesia on Hemodynamics and Renal Function in the Rat 384:135
Lind, A.R., see Petrofsky, J.S. 389:149
Lindl, T., see Köhler, G. 383:257
Lingelbach, B., see Haberich, F.J. 386:141
Lioy, F., Hanna, B.D., Polosa, C.
CO_2-Dependent Component of the Neurogenic Vascular Tone in the Cat 374:187
Lipner, H., see Stone, M.H. 375:141
Lipner, H., see Stone, M.H., et al. 375:147
Lippe, C., see Casavola, V., et al. 384:155
Lippe, C., see Schettino, T., et al. 387:269
Lippe, C., see Storelli, C., et al. 388:11
Lis, K., Acker, H., Lübbers, D.W., Halle, M.
A PCO_2 Surface Electrode Working on the Principle of Electrical Conductivity 381:289
Lisart, J.J., see Derks, C.M. 371:285
Little, R.A., Marshall, H.W., Reynolds, M.I., Stoner, H.B.
Effect of Changes in Baroreceptor Input on the Intensity of Shivering in the Anaesthetised Cat 384:261
Liverini, G., see Goglia, F., et al. 390:120
Llanos, A.J., see Macdonald, A.A., et al. 390:262
Lo, C.S., Gerendasy, D., Lo, T.N.
Effect of Triiodothyronine on Renal Growth and Renal Sodium Reabsorption in Hypothyroid Rats 390:186

Lo, T.N., see Lo, C.S., et al. 390:186
Locatto, M.E., Fernandez, M.C., Falenza, H., Orsatti, M.B., Puche, R.C., Boland, R.L., Skliar, M.I.
Effect of 1,25-Dihydroxycholecalciferol and 1,25-Dihydroxycholecalciferol Glycoside on 2,3-Diphosphoglycerate Levels of the Rat Erythrocyte 389:81
Locci-Cubeddu, T., see Villa-Moruzzi, E., et al. 379:301
Lochner, W., see Wichmann, J., et al. 373:219
Loeschcke, H.H., Schlaefke, M.E., See, W.R., Herker-See, A.
Does CO_2 Act on the Respiratory Centers? 381:249
Loeschcke, H.H., see Dev, N.B. 379:19
Loeschcke, H.H., see Dev, N.B. 379:29
Loeschcke, H.H., see Fukuda, Y. 371:125
Loeschcke, H.H., see Fukuda, Y. 379:125
Loeschcke, H.H., see Fukuda, Y., et al. 376:229
Loeschcke, H.H., see Luttmann, A., et al. 375:279
Loeschcke, H.H., see Middendorf, T. 375:257
Loeschcke, H.H., see Schlaefke, M.E., et al. 378:231
Loeschcke, H.H., see Schlaefke, M.E., et al. 381:241
Loeschke, K., Resch, W.
Nucleic Acid and Protein Content of Rat Cecum Mucosa in Dietary Adaptation – Growth by Cellular Hyperplasia 372:91
Loeschke, K., see Schiffl, H. 372:83
Logofetov, A., see Natcheff, N., et al. 371:279
Loiselle, D., see Gibbs, C. 373:31
Loiselle, D.S.
The Effects of Temperature on the Energetics of Rat Papillary Muscle 379:173
Löllgen, H., see Graham, T., et al. 376:35
Lombardi, V., see Cecchi, G., et al. 381:71
Lorković, H.
Effects of Motor Nerve Anesthesia and Tenotomy on Muscle Membrane Properties 379:89
Löser, R., see Wichmann, J., et al. 373:219
Louis, F., see Favre, H., et al. 382:73
Low, R.B., see Hamrell, B.B. 377:119
Lübbemeier, A., see Behn, C., et al. 372:259
Lübbers, D.W., see Boldt, M., et al. 385:167
Lübbers, D.W., see Lis, K., et al. 381:289
Lübbers, D.W., see Urbanics, R., et al. 378:47
Lübbers, D.W., see Weigelt, H., et al. 388:137
Lübbers, D.W., see Wodick, R., et al. 374:91
Lubbers, J., Bernink, P.J.L.M., Barendsen, G.J., van den Berg, J.W.
A Continuous Wave Doppler Velocimeter for Monitoring Blood Flow in the Popliteal Artery, Compared with Venous Occlusion Plethysmography of the Calf 382:241
Lucas, A., Therminarias, A., Tanche, M.
Maximum Oxygen Consumption in Dogs During Muscular Exercise and Cold Exposure 388:83
Lucas, M.L., Lei, F.H., Blair, J.A.
The Influence of Buffer pH, Glucose and Sodium Ion Concentration on the Acid Microclimate in Rat Proximal Jejunum in vitro 385:137
Lücke, H., Berner, W., Menge, H., Murer, H.
Sugar Transport by Brush Border Membrane Vesicles Isolated from Human Small Intestine 373:243
Luff, A.R., see Gregory, J.E., et al. 375:207
Luijendijk, S.C.M., Zwart, A., Vries, W.R. de, Salet, W.M.
The Sloping Alveolar Platéau at Synchronous Ventilation 384:267
Lundquist, I., see Ahrén, B. 390:17
Lupa, K., Wójcik, G., Ożóg, M., Niechaj, A.
Spread of the Dorsal Root Potentials in Lower Lumbar, Sacral and Upper Caudal Spinal Cord 381:201
Luttmann, A., Mückenhoff, K., Loeschcke, H.H.
Fast Measurement of the CO_2 Partial Pressure in Gases and Fluids 375:279
Lutz, J., Decke, B., Bäuml, M., Schulze, H.-G.
High Oxygen Extraction Combined with Extensive Oxygen Consumption in the Rat Liver Perfused with Fluosol-DA®, a New Perfluoro Compound Emulsion 376:1
Lutz, J., Metzenauer, P.
Effects of Potential Blood Substitutes (Perfluorochemicals) on Rat Liver and Spleen 387:175
Lützow, A. v., see Trappl, R., et al. 372:165
Lux, H.D., Neher, E., Marty, A.
Single Channel Activity Associated with the Calcium Dependent Outward Current in *Helix pomatia* 389:293
Lyngdorf-Henriksen, P., Munck, B.G., Skadhauge, E.
Sodium Chloride Transport Across the Lower Intestine of the Chicken. Dependence on Sodium Chloride Concentration and Effect of Inhibitors 378:161

Maas, A.H.J., see Boink, A.B.T.J., et al. 385:105
Macchia, D.D., Baumgarten, C.M.
Is Chloride Passively Distributed in Skeletal Muscle in vivo? 382:193
Macdonald, A.A., Llanos, A.J., Heyman, M.A., Rudolph, A.M.
Cardiovascular Responsiveness of the Pig Fetus to Autonomic Blockade 390:262
Machek, J., see Ujec, E., et al. 382:189
Mackeben, M., see Eckmiller, R. 377:15
Mackenzie, E., Standen, N.B.
The Postnatal Development of Adrenoceptor Responses in Isolated Papillary Muscles from Rat 383:185
MacKenzie, E.T., McGeorge, A.P., Graham, D.I., Flich, W., Edvinsson, L., Murray Harper, A.
Effects of Increasing Arterial Pressure on Cerebral Blood Flow in the Baboon: Influence of the Sympathetic Nervous System 378:189
Macleod, V.H., see Coote, J.H. 371:271
Macleod, V.H., see Coote, J.H., et al. 377:109
Madsen, J., see Bülow, J. 376:41
Madsen, J., see Bülow, J. 390:169
Magazanik, A., Shapiro, Y., Shibolet, S.
Dynamic Changes in Acid Base Balance During Heatstroke in Dogs 388:129
Magherini, P.C., see Denoth, F., et al. 381:87
Mahler, F., see Bollinger, A., et al. 382:137
Maier, P.F., see Schoenenberger, G.A., et al. 376:119
Mainwood, G.W., see Cechetto, D. 376:251
Maioli, C., see Belcari, P., et al. 371:147
Mairbäurl, H., Humpeler, E.
Diminution of the Temperature Effect on the Oxygen Affinity of Hemoglobin After Prolonged Hypothermia 383:209
Malaisse, W.J., Boschero, A.C., Kawazu, S., Hutton, J.C.
The Stimulus-Secretion Coupling of Glucose-Induced Insulin Release. XXVII. Effect of Glucose on K^+ Fluxes in Isolated Islets 373:237
Malaisse, W.J., see Kawazu, S., et al. 375:197
Malaisse, W.J., see Somers, G., et al. 385:217
Malaisse, W.J., see Somers, G., et al. 388:249
Malencik, D.A., see Kerrick, W.G.L., et al. 381:53
Malencik, D.A., see Kerrick, W.G.L., et al. 386:207
Manaranche, R., see Israel, M., et al. 377:117
Mandrek, K., Golenhofen, K.
Activation of Gastro-Intestinal Smooth Muscle Induced by the Calcium Ionophore A23187 371:119
Manz, A., see Schnell, K.F., et al. 375:87
Manz, R., see Vaupel, P., et al. 379:109
Marban, E.
Inhibition of Transient Outward Current by Intracellular Ion Substitution Unmasks Slow Inward Calcium Current in Cardiac Purkinje Fibers 390:106
Marder, J., see Bar-Ilan, A. 384:93
Marrannes, R., de Hemptinne, A., Leusen, I.
pH Aspects of Transient Changes in Conduction Velocity in Isolated Heart Fibers After Partial Replacement of Chloride with Organic Anions 389:199
Marshall, H.W., see Little, R.A., et al. 384:261
Martin, I.L., see Coote, J.H., et al. 377:109

Martin, J.L., Duvelleroy, M., Teisseire, B., Duruble, M.
Effects of an Increase in HbO_2 Affinity on the Calculated Capillary Recruitment of án Isolated Rat Heart 382:57
Martin, R., see Simon-Oppermann, C. 379:291
Martin-Requero, A., see Pérez-Díaz, J., et al. 371:19
Marty, A., see Lux, H.D., et al. 389:293
Mashburn, T.A., Jr., see Blatteis, C.M., et al. 389:177
Mason, J., Gutsche, H.-U., Moore, L., Müller-Suur, R.
The Early Phase of Experimental Acute Renal Failure. IV. The Diluting Ability of the Short Loops of Henle 379:11
Mason, J., Kain, H., Shiigai, T., Welsch, J.
The Early Phase of Experimental Acute Renal Failure. V. The Influence of Suppressing the Renin-Angiotensin System 380:233
Mason, J., Takabatake, T., Olbricht, C., Thurau, K.
The Early Phase of Experimental Acute Renal Failure. III. Tubuloglomerular Feedback 373:69
Mason, J., see Olbricht, C., et al. 372:251
Masoni, A., see Katz, U., et al. 390:299
Mathie, R.T., Lam, P.H.M., Harper, A.M., Blumgart, L.H.
The Hepatic Arterial Blood Flow Response to Portal Vein Occlusion in the Dog. The Effect of Hepatic Denervation 386:77
Mathie, R.T., see Hughes, R.L., et al. 381:151
Matković, V., see Blanuša, M., et al. 375:233
Matković, V., see Blanuša, M., et al. 375:239
Matsubara, I., see Yagi, N. 372:113
Maughan, D.W., Godt, R.E.
Inhibition of Force Production in Compressed Skinned Muscle Fibers of the Frog 390:161
May, B., see Bech, C., et al. 385:269
May, B., see Rautenberg, W., et al. 384:253
Mayer, C.J., see Riemer, J., et al. 372:243
Mayer, C.J., see Wood, J.D. 374:265
Mayer, E., see Holtz, J., et al. 372:187
Mayer, G., see Häberle, D.A., et al. 375:9
Mayer, G., see Häberle, D.A., et al. 376:191
Mazhbich, B.I., Kuzminykh, L.P., Pogodin, A.S.
Regional Blood Volume Changes of the Lungs in Response to the Vegetative Nerves Stimulation 382:171
McDonald, T.F., Pelzer, D., Trautwein, W.
On the Mechanism of Slow Calcium Channel Block in Heart 385:175
McDonald, T.F., see Trautwein, W. 374:79
McGeorge, A.P., see MacKenzie, E.T., et al. 378:189
McGuigan, J.A.S., see Boyett, M.R., et al. 389:37
McHale, N.G., see Ohhashi, T., et al. 388:221
McLeod, R., see Corman, B., et al. 389:45
Meesmann, M., see Richter, D.W., et al. 380:245
Meesmann, W., see Dallmer, H., et al. 380:99
Mei, N., see Falempin, M., et al. 373:25
Melichar, I., Syka, J.
Time Course of Anoxia-Induced K^+ Concentration Changes in the Cochlea Measured with K^+ Specific Microelectrodes 372:207
Melik, Z., see Humar, M., et al. 386:67
Mello, W.C. de
Passive Electrical Properties of the Atrio-Ventricular Node 371:135
Mendel, C., see Pousse, A., et al. 376:259
Mendel, C., see Pousse, A., et al. 381:15
Menge, H., see Lücke, H., et al. 373:243
Mense, S.
Effects of Temperature on the Discharges of Muscle Spindles and Tendon Organs 374:159
Mercer, J.B., Jessen, C.
Effects of Total Body Core Cooling on Heat Production of Conscious Goats 373:259
Mercer, J.B., Jessen, C.
Central Thermosensitivity in Conscious Goats: Hypothalamus and Spinal Cord Versus Residual Inner Body 374:179
Merke, J., see Kirsch, K.A., et al. 383:189
Merke, J., see Kirsch, K.A., et al. 387:239
Merke, J., see Kirsch, K., et al. 383:195
Metias, E.F., Cunningham, D.J.C., Howson, M.G., Petersen, E.S., Wolff, C.B.
Reflex Effects on Human Breathing of Breath-by-Breath Changes of the Time Profile of Alveolar P_{CO_2} During Steady Hypoxia 389:243
Metzenauer, P., see Lutz, J. 387:175
Metzger, H., Heuber-Metzger, S., Steinacker, A., Strüber, J.
Staining PO_2 Measurement Sites in the Rat Brain Cortex and Quantitative Morphometry of the Surrounding Capillaries 388:21
Meyer, M.
Technique for Measurement of Inert Gases in Liquids by Gas Chromatography 375:161
Meyer, M., Holle, J.P., Scheid, P.
Bohr Effect Induced by CO_2 and Fixed Acid at Various Levels of O_2 Saturation in Duck Blood 376:237
Meyer, M., Tebbe, U., Piiper, J.
Solubility of Inert Gases in Dog Blood and Skeletal Muscle 384:131
Meyer, M., see di Prampero, P.E., et al. 377:1
Meyer, M., see Prampero, P.E. di, et al. 389:257
Meyer-Lohmann, J., see Windhorst, U. 372:131
Meywald, K., see Greven, J., et al. 384:57
Meywald, K., see Greven, J., et al. 384:61
Middendorf, T., Loeschcke, H.H.
Cooperation of the Peripheral and Central Chemosensitive Mechanisms in the Control of the Extracellular pH in Brain in Non-Respiratory Acidosis 375:257
Milić, B., see Petrović, V.M., et al. 377:181
Milla, E.
Tubular Extrusion of d-Glucose in the Isolated Rabbit Kidney Perfused in vitro 388:29
Mills, R.G., Bray, J.J.
A Slow-Release Technique for Inducing Prolonged Paralysis by Tetrodotoxin 383:67
Milne, A.G., see Rubin, A.M., et al. 371:155
Milton Adams, J., Attinger, F.M., Attinger, E.O.
Medullary and Carotid Chemoreceptor Interaction for Mild Stimuli 374:39
Mimran, A., Casellas, D.
Microsphere Size and Determination of Intrarenal Blood Flow Distribution in the Rat 382:233
Minelli, R., see Reggiani, C., et al. 385:273
Minteer, W.J., see Flaim, S.F., et al. 385:203
Mirkovitch, V., see Robinson, J.W.L., et al. 371:9
Moes, D. de, see Boink, A.B.T.J., et al. 385:105
Mognoni, P., see Saibene, F., et al. 378:65
Mohnhaupt, R., see Kaczmarczyk, G., et al. 381:143
Mohnhaupt, R., see Kaczmarczyk, G., et al. 390:125
Mohnhaupt, R., see Kaczmarczyk, G., et al. 390:44
Mohnhaupt, R., see Reinhardt, H.W., et al. 384:171
Mohnhaupt, R., see Reinhardt, H.W., et al. 389:9
Möhring, J., Schoun, J., Simon-Oppermann, Ch., Simon, E.
Radioimmunoassay for Arginine-Vasotocin (AVT) in Serum of Pekin Ducks. AVT Concentrations After Adaptation to Fresh Water and Salt Water 387:91
Möhring, J., see Haack, D. 373:167
Möhring, J., see Simon-Oppermann, Ch., et al. 387:99
Molenaar, J.C., see Provoost, A.P. 385:161
Molenaar, J., Voorhorst, R., Schreurs, A.W., Broekhuyzen, P., Nivard, J., Grind, W.A. van de
A Mechanical Oscilloscope for Vision Research 383:173
Mølgaard, H., Stürup-Johansen, M., Flatman, J.A.
A Dichtomy of the Membrane Potential Response of Rat Soleus Muscle Fibres to Low Extracellular Potassium Concentrations 383:181
Moll, W., Girard, H., Gros, G.
Facilitated Diffusion of Lactic Acid in the Guinea-Pig Placenta 385:229

Moll, W., Wallenburg, H.C.S., Kastendieck, E., Voslar, M.
The Flow Resistance of the Spiral Artery and the Related Intervillous Space in the Rhesus Monkey Placenta 377:225
Mongo, K.G., see Roulet, M.-J., et al. 379:259
Monnier, M., see Glatt, A. 374:101
Monnier, M., see Schoenenberger, G.A., et al. 376:119
Monos, E., Csengödy, J.
Does Hemodynamic Adaptation Take Place in the Vein Grafted into an Artery? 384:177
Montarolo, P.G., Raschi, F., Strata, P.
On the Origin of the Fibres of the Cerebellar Cortex 383:137
Mook, G.A., see Landsman, M.L.J., et al. 373:273
Mook, G.A., see Landsman, M.L.J., et al. 379:59
Moore, L., see Häberle, D.A., et al. 375:131
Moore, L., see Mason, J., et al. 379:11
Moore, L.C., Yarimizu, S., Schubert, G., Weber, P.C., Schnermann, J.
Dynamics of Tubuloglomerular Feedback Adaption to Acute and Chronic Changes in Body Fluid Volume 387:39
Morales, P., see Sillau, A.H., et al. 386:269
Morán, O., see Turek, Z., et al. 384:109
Moreau, E., see Delaval, E., et al. 379:95
Morel, F., see Quamme, G.A., et al. 377:95
Morgan, D.L., see Gregory, J.E., et al. 375:207
Morgan, T., see Gillies, A. 375:105
Morgan, T., see Rayson, B.M.R., et al. 373:99
Morgan, T., see Rayson, B.M.R., et al. 373:105
Morrison, G.W., see Greenwood, P.V., et al. 386:199
Moshagen, D., see Nagel, W. 374:235
Mostardi, R., see Saibene, F., et al. 378:65
Motz, W., see Kapteina, F.W., et al. 374:23
Mrwa, U., see Rüegg, J.C., et al. 390:198
Mückenhoff, K., see Luttmann, A., et al. 375:279
Muheim, M.H.
Fabrication of Well Defined Micropipette Tips by Hydrofluoric Acid Etching 372:101
Mühlbauer, R.C., Bonjour, J.-P., Fleisch, H.
Chronic Thyroparathyroidectomy and Tubular Handling of Phosphate. Increased Reabsorption in Late but not in Early Proximal Tubule 388:185
Müller, A., see Villamil, M.F., et al. 390:260
Müller, M.J., Seitz, H.J.
In vivo Glucose Turnover in Hypo- and Hyperthyroid Starved Rat 386:47
Müller-Klieser, W., see Vaupel, P., et al. 379:109
Müller-Suur, R., see Gutsche, H.U., et al. 383:113
Müller-Suur, R., see Gutsche, H.-U., et al. 386:11
Müller-Suur, R., see Mason, J., et al. 379:11
Mulroy, M.J., see Weiss, T.F., et al. 373:77
Munck, B.G., see Lyngdorf-Henriksen, P., et al. 378:161
Munday, K.A., see Rowe, B.P., et al. 380:13
Munday, K.A., see Rowe, B.P., et al. 380:285
Munday, K.A., see Rowe, B.P., et al. 382:269
Murakami, N., Uchimura, H., Sakata, Y.
Comparison of Thermosensitivity in the Preoptic/Anterior Hypothalamic Area and the Midbrain of the Rabbit 379:113
Murer, H., see Alvarado, F., et al. 382:35
Murer, H., see Burckhardt, G., et al. 390:191
Murer, H., see Eveloff, J., et al. 378:87
Murer, H., see Lücke, H., et al. 373:243
Murer, H., see Stoll, R., et al. 380:47
Murer, H., see Storelli, C. 384:149
Murer, H., see Storelli, C., et al. 388:11
Murray Harper, A., see MacKenzie, E.T., et al. 378:189
Musoglu, E., see Jank, K., et al. 371:175
Mutai, M., see Umesaki, Y., et al. 379:43
Mutai, M., see Umesaki, Y., et al. 388:205
Nagai, M., see Pleschka, K., et al. 382:255
Nagel, W., Crabbé, J.
Mechanism of Action of Aldosterone on Active Sodium Transport Across Toad Skin 385:181
Nagel, W., Moshagen, D.
Wash Out Characteristics of Tracer Na from the Transport Pool of Frog Skin 374:235
Nakahata, N.
Magnesium Dependent Contraction of Glycerinated Smooth Muscle 382:133
Nakayama, S., see Takaki, M., et al. 388:45
Nakayama, T., Ishikawa, Y., Tsurutani, T.
Projection of Scrotal Thermal Afferents to the Preoptic and Hypothalamic Neurons in Rats 380:59
Nakazato, Y., Onoda, Y., Ohga, A.
Role of Calcium in the Release of Noradrenaline Induced by Sodium Deprivation from the Guinea-Pig Vas Deferens 372:63
Namiot, Z., see Górski, J., et al. 377:251
Nascimento, L., see Arruda, J.A.L., et al. 376:193
Nassar, C.F., see Bikhazi, A.B., et al. 386:245
Natcheff, N., Logofetov, A., Tzaneva, N.
Hypothalamic Control of Plasma Renin Activity 371:279
Naylor, G.R.S.
A Simple Circuit for Automatic Continuous Recording of Microelectrode Resistance 378:107
Nazar, K., see Kozlowski, S., et al. 382:105
Necker, R., see Graf, R. 380:215
Needham, A.D., see Hales, J.R.S., et al. 378:55
Neef, P. de, see Chatelein, P., et al. 389:21, 29
Neef, P. de, see Chatelain, P., et al. 390:10
Nees, S., see Schrader, J., et al. 378:167
Negishi, K., Kato, S., Sugawara, K.
Effects of Locally Applied Chemicals on Transretinal Potential and Horizontal Cells in the Isolated Carp Retina. I. Amino Acids 375:53
Negishi, K., Kato, S., Sugawara, K.
Effects of Locally Applied Chemicals on Transretinal Potential and Horizontal Cells in the Isolated Carp Retina. II. Calcium-Chelator 375:61
Neher, E., Sakmann, B., Steinbach, J.H.
The Extracellular Patch Clamp: A Method for Resolving Currents through Individual Open Channels in Biological Membranes 375:219
Neher, E., see Lux, H.D., et al. 389:293
Neill, W.A., Sewell, D., Gopal, M., Oxendine, J., Painter, L.
Independent Regulation of Atrial Coronary Blood Flow by Atrial Contraction Rate in Conscious Dogs 388:193
Neiss, A., see Häberle, D.A., et al. 375:131
Nenniger, M., see Diezi, J., et al. 385:91
Netz, J., see Grünewald, G., et al. 381:39
Neumcke, B., Schwarz, W., Stämpfli, R.
Differences Between K Channels in Motor and Sensory Nerve Fibres of the Frog as Revealed by Fluctuation Analysis 387:9
Neumcke, B., Schwarz, W., Stämpfli, R.
Block of Na Channels in the Membrane of Myelinated Nerve by Benzocaine 390:230
Neya, T., see Takaki, M., et al. 388:45
Nicol, C.J.M., Bruce, D.S.
Effect of Hyperthyroidism on the Contractile and Histochemical Properties of Fast and Slow Twitch Skeletal Muscle in the Rat 390:73
Niechaj, A., see Lupa, K., et al. 381:201
Nier, K., see Gupta, B.N., et al. 380:203
Niijima, A., see Sakaguchi, T., et al. 380:283
Nilsson, I.-M., see Koop, U., et al. 387:107
Nishi, K., Sakanashi, M., Takenaka, F.
Activation of Afferent Cardiac Sympathetic Nerve Fibers of the Cat by Pain Producing Substances and by Noxious Heat 372:53
Nishi, S., see Kuba, K. 378:205

Nishiyama, A., see Wakui, M. 386:251
Nishiyama, A., see Wakui, M. 386:261
Nivard, J., see Molenaar, J., et al. 383:173
Nizet, A.
Inhibition by Indomethacin of the Renal Response to an Acute Saline Load in the Dog 378:223
Nizet, A.
Influence of Replacement of Chloride by Sulphate upon Urine Excretion and Glomerular Filtration Rate in Blood Perfused Isolated Dog Kidneys 382:217
Noble, A.R., see Rowe, B.P., et al. 380:13
Noble, A.R., see Rowe, B.P., et al. 380:285
Noble, A.R., see Rowe, B.P., et al. 382:269
Noble, M.I.M., see Kaczmarczyk, G., et al. 390:125
Nolan, W., see Frankel, H.M., et al. 384:143
Noma, A., Kotake, H., Irisawa, H.
Slow Inward Current and its Role Mediating the Chronotropic Effect of Epinephrine in the Rabbit Sinoatrial Node 388:1
Noma, A., Osterrieder, W., Trautwein, W.
The Effect of External Potassium on the Elementary Conductance of the ACh-Induced Potassium Channel in the Sino Atrial Node 381:263
Noma, A., Peper, K., Trautwein, W.
Acetylcholine Induced Potassium Current Fluctuations in the Rabbit Sino-Atrial Node 381:255
Noma, A., Trautwein, W.
Relaxation of the ACh-Induced Potassium Current in the Rabbit Sinoatrial Node Cell 377:193
Noma, A., Yanagihara, K., Irisawa, H.
Inward Current of the Rabbit Sinoatrial Node Cell 372:43
Noma, A., see DiFrancesco, D., et al. 381:271
Noma, A., see DiFrancesco, D., et al. 387:83
Noma, A., see Osterrieder, W., et al. 386:101
Nonner, W., Rojas, E., Stämpfli, R.
Asymmetrical Displacement Currents in the Membrane of Frog Myelinated Nerve: Early Time Course and Effects of Membrane Potential 375:75
North, R.A., see Wallis, D.I. 374:145
North, W.G., see LaRochelle, F.T., Jr., et al. 387:79
Nosaka, S., Yasunaga, K., Kawano, M.
Vagus Cardioinhibitory Fibers in Rats 379:281
Nosek, T.M.
Effects of Chloride on the Electrical and Mechanical Properties of Guinea Pig Ventricle 381:171
Nouri, M., see Webber, D.E., et al. 384:65
Novotová, M., see Uhrík, B., et al. 387:281
Nutto, D., see Knepel, W., et al. 388:177

Obál, F., Jr., Benedek, G., Jancsó-Gábor, A., Obál, F.
Salivary Cooling, Escape Reaction and Heat Pain in Capsaicin-Desensitized Rats 382:249
Obál, F., Jr., Benedek, G., Jancsó-Gábor, A., Obál, F.
Tail Skin Vasodilatation and Bath Test in Capsaicin-Desensitized Rats 387:183
Obál, F., see Obál, F., Jr., et al. 382:249
Obál, F., see Obál, F., Jr., et al. 387:183
Obara, S.
A Low-Cost, High-Precision Scope Calibrator. A Delayed Pulse Generator with an Isolated Output 378:259
Öberg, B., see Wennergren, G. 387:189
Oberleithner, H., Greger, R., Lang, F.
Role of Calcium in the Decline of Phosphate Reabsorption during Phospate Loading in Actuely Thyroparathyroidectomized Rats 374:249
Oberleithner, H., Lang, F., Greger, R., Sporer, H.
Influence of Calcium and Ionophore 23187 on Tubular Phosphate Reabsorption 379:37
Oberleithner, H., see Greger, R., et al. 374:153
Oberleithner, H., see Greger, R., et al. 374:243
Oberleithner, H., see Greger, R., et al. 384:105
Oberleithner, H., see Lang, F., et al. 375:39
Ochi, R., Hashimoto, K.
The Effect of Procaine on the Passive Electrical Properties of Guinea-Pig Ventricular Muscle 378:1
Oelkers, W., see Reinhardt, H.W., et al. 384:171
Oeseburg, B., Kwant, G., Schut, J.K., Veenstra, J.
Continuous Intra-Arterial pH Measurament 386:95
Oeseburg, B., see Rispens, P., et al. 386:97
Ohba, M., see Attwell, D., et al. 379:137
Ohga, A., see Nakazato, Y., et al. 372:63
Ohhashi, T., Kawai, Y., Azuma, T.
The Response of Lymphatic Smooth Muscles to Vasoactive Substances 375:183
Ohhashi, T., McHale, N.G., Roddie, I.C., Thornbury, K.D.
Electrical Field Stimulation as a Method of Stimulating Nerve or Smooth Muscle in Isolated Bovine Mesenteric Lymphatics 388:221
Ohhashi, T., see Sakaguchi, M., et al. 378:263
Ohhashi, T., see Sakaguchi, M., et al. 388:261
Ohta, Y., Kuba, K.
Inhibitory Action of Ca^{2+} on Spontaneous Transmitter Release at Motor Nerve Terminals in a High K^+ Solution 386:29
Ojeda, C., see Attwell, D., et al. 379:137
Ojeda, C., see Attwell, D., et al. 384:49
Okahara, T., see Yasuda, M., et al. 385:111
Olbricht, C., Mason, J., Takabatake, T., Hohlbrugger, G., Thurau, K.
The Early Phase of Experimental Acute Renal Failure. II. Tubular Leakage and the Reliability of Glomerular Markers 372:251
Olbricht, C., see Mason, J., et al. 373:69
Olievier, C.N., Berkenbosch, A., Quanjer, Ph.H.
In vivo Measurement of Carbon Dioxide Tension with a Miniature Electrode 373:269
Olivares, J., see Rossi, A., et al. 390:5
Oliver, C., see Warberg, J., et al. 385:79
Oliver, J.A., see Brown, J.A., et al. 377:101
Oliver, J.R., Wareham, A.C.
Effects of Denervation on Resting Membrane and Action Potentials of Neonate Rat Fast and Slow Twitch Muscles 380:111
Öner, G., see Bor, N.M., et al. 386:277
Onoda, Y., see Nakazato, Y., et al. 372:63
Orgiazzi, J., see Rousset, B., et al. 375:177
Orlov, S.N., see Postnov, Yu.V., et al. 371:263
Orlov, S.N., see Postnov, Yu.V., et al. 379:191
Orlov, S.N., see Postnov, Yu.V., et al. 384:183
Orlov, S.N., see Postnov, Yu.V., et al. 388:89
Orlov, S.N., see Postnov, Yu.V., et al. 390:256
Orlov, S.N., see Postnov, Y.V. 385:85
Orsatti, M.B., see Locatto, M.E., et al. 389:81
Osswald, H., Schmitz, H.-J., Kemper, R.
Tissue Content of Adenosine, Inosine and Hypoxanthine in the Rat Kidney after Ischemia and Postischemia Recirculation 371:45
Osterrieder, W., Noma, A., Trautwein, W.
On the Kinetics of the Potassium Channel Activated by Acetylcholine in the S-A Node of the Rabbit Heart 386:101
Osterrieder, W., Yang, Q.-F., Trautwein, W.
The Time Course of the Muscarinic Response to Ionophoretic Acetylcholine Application to the S-A Node of the Rabbit Heart 389:283
Osterrieder, W., see Noma, A., et al. 381:263
Ou, L.-C., see Smith, R.P., et al. 380:65
Ouwerkerk, H.J. van
Faciliated Diffusion in a Tissue Cylinder with an Anoxic Region 372:221
Overweg, N.I.A., see Schiff, J.D. 389:75
Owens, B., see Perez, G.O., et al. 372:275
Oxendine, J., see Neill, W.A., et al. 388:193
Ozaki, H., Urakawa, N.
Effects of K-free Solution on Tension Development and Na Content in Vascular Smooth Muscles Isolated from Guinea-Pig, Rat and Rabbit 389:189

Ozaki, H., Urakawa, N.
Involvement of a Na-Ca Exchange Mechanism in Contraction Induced by Low-Na Solution in Isolated Guinea-Pig Aorta 390:107
Ożóg, M., see Lupa, K., et al. 381:201

Paduano, C., see De Santo, N.G., et al. 384:117
Pahud, P., see Ravussin, E., et al. 382:197
Painter, L., see Neill, W.A., et al. 388:193
Palkovits, M., see Zandberg, P., et al. 372:169
Palmskog, G., see Sahlin, K., et al. 374:193
Pap, A., Lechene de la Porte, P., Sarles, H.
Exogenous and Endogenous Stimulations During Different Phases of Pancreatic Secretion in Conscious Rats 383:19
Papavassiliou, F., see Ullrich, K.J. 379:49
Papavassiliou, F., see Ullrich, K.J. 389:271
Papp, A., see Laugier, R., et al. 384:83
Pappano, A.J., Carmeliet, E.E.
Epinephrine and the Pacemaking Mechanism at Plateau Potentials in Sheep Cardiac Purkinje Fibers 382:17
Parisi, M., Candia, O., Alvarez, L.
Water Permeability of the Toad Corneal Epithelium: The Effects of pH and Amphotericin B 383:131
Parker, C.R., Jr., see Warberg, J., et al. 385:79
Parrilla, R.
Flux of Metabolic Fuels during Starvation in the Rat 374:3
Parrilla, R.
The Effect of Starvation in the Rat on Metabolite Concentrations in Blood, Liver and Skeletal Muscle 374:9
Parrilla, R., see Pérez-Díaz, J., et al. 371:19
Pastrňák, A., see Peregrin, J., et al. 376:81
Pastrňákova, I., see Peregrin, J., et al. 376:81
Patch, L.D., Brooks, G.A.
Effects of Training on VO_2, max and VO_2 During Two Running Intensities in Rats 386:215
Pavlik, V., see Ujec, E., et al. 382:189
Pearson, G.T., see Davison, J.S. 381:75
Peiper, U.
Force-Velocity Relations of the Portal Vein of Hyperthyroid Rats 372:23
Peiper, U., Klempt, P., Schleupner, R.
The Temperature Dependence of Parallel and Series Elastic Elements in the Vascular Smooth Muscle of the Rat Portal Vein 378:25
Peiper, U., see Klempt, P. 378:31
Pelzer, D., see McDonald, T.F., et al. 385:175
Pennell, J.P., Bourgoignie, J.J.
Adaptive Changes of Juxtamedullary Glomerular Filtration in the Remnant Kidney 389:131
Peper, K., see Hohlfeld, R., et al. 390:156
Peper, K., see Noma, A., et al. 381:255
Peregrin, J., Pastrňákova, I., Pastrňák, A.
Visual Evoked Responses to the Upper and Lower Half-Field Stimulation in a Dark-Adapted Man 376:81
Perez, G.O., Rietberg, B., Owens, B., Schiff, E.R.
Effect of Acute Uremia on Arginine Metabolism and Urea and Guanidine Acid Production by Perfused Rat Liver 372:275
Pérez-Díaz, J., Martin-Requero, A., Parrilla, R., Ayuso-Parrilla, M.S.
Relationship between Cellular Energy Production and Rates of Glucose Utilization by Lung Cells 371:19
Pérez-Gonzáles, M., see González, E., et al. 383:165
Persson, A.E.G., Schnermann, J., Wright, F.S.
Modification of Feedback Influence on Glomerular Filtration Rate by Acute Isotonic Extracellular Volume Expansion 381:99
Peterlik, M., see Fuchs, R. 381:217
Peters, A.M., Richards, T.G.
Radioxenon Washout from the Dog Liver: A Comparison of Portal Venous and Hepatic Arterial Injections 384:75
Petersen, E.S., see Metias, E.F., et al. 389:243
Petersen, K.-U., see Heintze, K., et al. 373:9
Petersen, O.H., Ueda, N., Hall, R.A., Gray, T.A.
The Role of Calcium in Parotid Amylase Secretion Evoked by Excitation of Cholinergic, α- und β-Adrenergic Receptors 372:231
Petersen, O.H., see Gallacher, D.V. 389:127
Petersen, O.H., see Iwatsuki, N. 377:185
Petersen, O.H., see Iwatsuki, N. 380:277
Petersen, O.H., see Iwatsuki, N. 386:153
Petersen, O.H., see Laugier, R. 386:147
Petersen, O.H., see Philpott, H.G. 382:263
Petersen, O.H., see Roberts, M.L., et al. 376:159
Petrescu, G., see Haulică, I.D., et al. 373:15
Petrofsky, J.S., Fitch, C.D.
Contractile Characteristics of Skeletal Muscles Depleted of Phosphocreatine 384:123
Petrofsky, J.S., Lind, A.R.
The Influence of Temperature on the Isometric Characteristics of Fast and Slow Muscle in the Cat 389:149
Petrofsky, J.S., Weber, C., Phillips, Ch.A.
Mechanical and Electrical Correlates of Isometric Muscle Fatigue in Skeletal Muscle in the Cat 387:33
Petrofsky, J.S., see Sawka, M.N., et al. 390:164
Petrov, V.I.
Lebedev, V.P., et al. 383:91
Petrov, V.I., see Lebedev, V.P., et al. 383:91
Petrović, V.M., Vrbaški, M., Rajčić, O., Milić, B.
Biosynthesis of Mitochondrial Protein Components in the Liver of Cold Exposed or Adapted Rats 377:181
Petsche, H., see Rappelsberger, P., et al. 389:159
Pette, D., Vrbová, G., Whalen, R.C.
Independent Development of Contractile Properties and Myosin Light Chains in Embryonic Chick Fast and Slow Muscle 378:251
Pette, D., see Srihari, T., et al. 390:246
Pflieger, G., see Kovács, T., et al. 390:250
Phillips, C.A., see Sawka, M.N., et al. 390:164
Phillips, Ch.A., see Petrofsky, J.S., et al. 387:33
Philpott, H.G., Petersen, O.H.
Separate Activation Sites for Cholecystokinin and Bombesin on Pancreatic Acini. An Electrophysiological Study Employing a Competitive Antagonist for the Action of CCK 382:263
Pholpramool, C., see Tangkrisanavinont, V. 382:275
Piazzesi, G., see Cecchi, G., et al. 381:71
Pierau, F.-K., see Görke, K. 386:21
Pierau, Fr.-K., see Görke, K. 381:47
Pierau, Fr.-K., see Krönert, H., et al. 388:17
Piiper, J., see di Prampero, P.E., et al. 377:1
Piiper, J., see Meyer, M., et al. 384:131
Piiper, J., see Prampero, P.E. di, et al. 389:257
Pinard, E., Purves, M.J., Seylaz, J., Vasquez, J.V.
The Cholinergic Pathway to Cerebral Blood Vessels. II. Physiological Studies 379:165
Pinard, E., Seylaz, J.
Intracerebral Gas Partial Pressure Changes Under Vasoactive Drugs 375:25
Piontek, E.
Determination of the Mean Flow Velocity of Blood in Tissue by Application of Locally Generated Hydrogen as an Indicator 374:91
Piontek, E., see Wodick, R., et al. 374:91
Piper, D.
Engineer's Flexible Arms: A Method of Increasing their Rigidity 388:191
Planelles, G., see Anagnostopoulos, T. 381:231
Platsch, K.D., see Wiederholt, M., et al. 388:169
Pleschka, K., Kühn, P., Nagai, M.
Differential Vasomotor Adjustments in the Evaporative Tissues of the Tongue and Nose in the Dog Heat Load 382:255
Pleschka, K., see Krönert, H., et al. 388:17
Pleschka, K., see Thomson, E.M. 387:161
Ploth, D.W., Dahlheim, H., Schmidweier, E., Hermle, M., Schnermann, J.
Tubuloglomerular Feedback and Autoregulation of Glomerular

Filtration Rate in Wistar-Kyoto Spontaneously Hypertensive Rats 375:261
Pocinwong, S., see Kerrick, W.G.L., et al. 386:207
Pockberger, H., see Rappelsberger, P., et al. 389:159
Poggesi, C., see Reggiani, C., et al. 385:273
Pogodin, A.S., see Mazhbich, B.I., et al. 382:171
Pohoska, E., see Kozlowski, S., et al. 382:105
Pokudin, N.I., see Postnov, Yu.V., et al. 379:191
Pokudin, N.I., see Postnov, Yu.V., et al. 384:183
Pokudin, N.I., see Postnov, Yu.V., et al. 388:89
Pokudin, N.I., see Postnov, Yu.V., et al. 390:256
Poloczek, P., see Chatelain, P., et al. 390:10
Polosa, C., see Lioy, F., et al. 374:187
Pompeiano, O., Wand, P.
Critical Firing Level of Gastrochemius Soleus Motoneurons Showing a Prolonged Discharge Following Vibration of the Homonymous Muscles 385:263
Pompeiano, O., see Boyle, R. 381:179
Pompeiano, O., see Denoth, F., et al. 381:87
Pompeiano, O., see Stanojević, M., et al. 385:95
Ponce, J., see Villamil, M.F., et al. 390:260
Ponsin, G., see Rousset, B., et al. 375:177
Porter, J.C., see Warberg, J., et al. 385:79
Portel, R., see Laury, M.C. 384:159
Postnov, Yu.V., Orlov, S.N., Pokudin, N.I.
Decrease of Calcium Binding by the Red Blood Cell Membrane in Spontaneously Hypertensive Rats and in Essential Hypertension 379:191
Postnov, Yu.V., Orlov, S.N., Pokudin, N.I.
Alteration of Intracellular Calcium Distribution in the Adipose Tissue of Human Patients with Essential Hypertension 388:89
Postnov, Yu.V., Orlov, S.N., Pokudin, N.I.
Alteration of the Intracellular Calcium Pool of Adipose Tissue in Spontaneously Hypertensive Rats. No Effect of Peripheral Immunosympathectomy 390:256
Postnov, Yu.V., Orlov, S.N., Reznikova, M.B., Pokudin, N.I.
Features of Adipocyte Sensitivity to Lipolytic Agents in Spontaneously Hypertensive Rats. Possible Role of Altered Intracellular Calcium Distribution 384:183
Postnov, Yu.V., Orlov, S.N., Shevchenko, A., Adler, A.M.
Altered Sodium Permeability, Calcium Binding and Na-K-ATPase Activity in the Red Blood Cell Membrane in Essential Hypertension 371:263
Postnov, Yu.V., Reznikova, M.
Glucose Uptake and Triglyceride Synthesis in Adipose Tissue of Spontaneously and Renal Hypertensive Rats (Alterations Revealed by Adrenalectomy) 379:187
Postnov, Y.V., Orlov, S.N.
Evidence of Altered Calcium Accumulation and Calcium Binding by the Membranes of Adipocytes in Spontaneously Hypertensive Rats 385:85
Pott, I., see Glitsch, H.G. 377:57
Pott, L.
On the Time Course of the Acetylcholine-Induced Hyperpolarization in Quiescent Guinea-Pig Atria 380:71
Pott, L., see Beume, R. 376:21
Pott, L., Pusch, H.
A Kinetic Model for the Muscarinic Action of Acetylcholine 383:75
Potter, J.D., see Kerrick, W.G.L., et al. 386:207
Potvliege, P., see Bauduin, H., et al. 372:69
Poujeol, P., Corman, B., Touvay, C., Rouffignac, C. de
Phosphate Reabsorption in Rat Nephron Terminal Segments intrarenal Heterogeneity and Strain Differences 371:39
Poujeol, P., Jamison, R.L., Rouffignac, C. de
Phosphate Reabsorption in Juxtamedullary Nephron Terminal Segments 387:27
Pousse, A., Mendel, C., Kachelhoffer, J., Grenier, J.F.
Computer Programm for Intestinal Spike Bursts Recognition 381:15
Pousse, A., Mendel, C., Vial, J.L., Grenier, J.F.
Computer Program for Intestinal Basic Electrical Rhythm Patterns Analysis 376:259
Pousse, A., see Vasseur, M., et al. 373:133
Pousse, A., see Vasseur, M., et al. 379:297
Powis, D.A., see Davies, B.N., et al. 377:87
Poyart, C., Bursaux, E., Guesnon, P., Teisseire, B.
Chloride Binding and the Bohr Effect of Human Fetal Erythrocytes and HbF_{II} Solutions 376:169
Poyart, C., see Bursaux, E., et al. 378:197
Precht, W., Anderson, J.H.
Effects of Cerebellectomy on the Cat's Vertical Vestibuloocular Reflex 382:51
Precht, W., see Cazin, L., et al. 384:19
Precht, W., see Cazin, L., et al. 384:31
Precht, W., see Cazin, L., et al. 386:221
Precht, W., see Dieringer, N. 380:79
Premachandra, B.N., see Winder, W.W., et al. 389:195
Pries, A., see Gaehtgens, P., et al. 380:115
Prince, F.P., Hikida, R.S., Hagerman, F.C.
Muscle Fiber Types in Women Athletes and Non-Athletes 371:161
Prioux-Guyonneau, M., Cretet, E., Jacquot, C., Rapin, J.R., Cohen, Y.
The Effect of Various Simulated Altitudes on the Turnover of Norepinephrine and Dopamine in the Central Nervous System of Rats 380:127
Prokopczuk, A., see Lewartowski, B., et al. 377:167
Proske, U., see Gregory, J.E., et al. 375:207
Provoost, A.P., Molenaar, J.C.
Changes in Glomerular Filtration Rate After Unilateral Nephrectomy in Rats 385:161
Prusik, Z., see Vyskočil, F., et al. 390:265
Puche, R.C., see Locatto, M.E., et al. 389:81
Pujade-Lauraine, E., see Drüeke, T., et al. 373:249
Purves, M.J., see Pinard, E., et al. 379:165
Purves, M.J., see Vasquez, J. 379:157
Pusch, H., see Glitsch, H.G. 384:189
Pusch, H., see Pott, L. 383:75
Puschmann, S., Jessen, C.
Anterior and Posterior Hypothalamus: Effects of Independent Temperature Displacements on Heat Production in Conscious Goats 373:59
Putney, J.W. Jr., Landis, C.A., Walle, C.M. van de
Effect of Carbachol on Radiosodium Uptake by Dispersed Pancreatic Acinar Cells 385:131
Pyörnilä, A., Hissa, R., Jeronen, E.
The Influence of High Ambient Temperature on Thermoregulatory Response to Intrahypothalamic Injections of Noradrenaline and Serotonin in the Pigeon 377:51
Pytkowski, B., see Lewartowski, B., et al. 377:167

Quamme, G.A., Carney, S.L., Wong, N.L.M., Dirks, J.H.
Effect of Parathyroid Hormone on Renal Calcium and Magnesium Reabsorption in Magnesium Deficient Rats 386:59
Quamme, G.A., Wong, N.L.M., Dirks, J.H., Roinel, N., de Rouffignac, C., Morel, F.
Magnesium Handling in the Dog Kidney: A Micropuncture Study 377:95
Quanjer, Ph.H., see Hendriks, F.F.A., et al. 388:197
Quanjer, Ph.H., see Olievier, C.N., et al. 373:269
Quehenberger, P., see Lang, F., et al. 375:39
Quehenberger, P., see Lang, F., et al. 386:239

Rajčić, O., see Petrović, V.M., et al. 377:181
Rambo, N., see Kirsch, K.A., et al. 387:239
Ramon, J., see Carmeliet, E. 387:197
Ramon, J., see Carmeliet, E. 387:207
Ramon, J., see Carmeliet, E. 387:217
Rantamäki, J., see Vihko, V., et al. 378:99

Rao, P.S., Bhagat, B.
Effect of Dopamine on Renal Blood Flow of Baboon in Endotoxin Shock 374:105
Rapin, J.R., see Prioux-Guyonneau, M., et al. 380:127
Rappelsberger, P., Pockberger, H., Petsche, H.
Current Source Density Analysis: Methods and Application to Simultaneously Recorded Field Potentials of the Rabbit's Visual Cortex 389:159
Raschi, F., see Montarolo, P.G., et al. 383:137
Rasmussen, S.N.
Red Cell and Plasma Volume Flows to the Inner Medulla of the Rat Kidney. Determination by Means of a Step Function Input Indicator Technique 373:153
Rautenberg, W., May, B., Arabin, G.
Behavioral and Autonomic Temperature Regulation in Competition with Food Intake and Water Balance of Pigeons 384:253
Rautenberg, W., see Bech, C., et al. 385:269
Ravussin, E., Pahud, P., Dörner, A., Arnaud, M.J., Jéquier, E.
Substrate Utilization During Prolonged Exercise Preceded by Ingestion of ^{13}C-Glucose in Glycogen Depleted and Control Subjects 382:197
Ray, A., see Rossi, A., et al. 390:5
Ray, C., see Rayson, B.M.R., et al. 373:99
Ray, C., see Rayson, B.M.R., et al. 373:105
Rayson, B.M.R., Ray, C., Morgan, T.
A Study of the Interaction of Catecholamines and Antidiuretic Hormone on Water Permeability and the Cyclic AMP System in Isolated Papillae of the Rat 373:99
Rayson, B.M.R., Ray, C., Morgan, T.
The Effect of Adrenocortical Hormones on Water Permeability of the Collecting Duct of the Rat 373:105
Reber, W., Huguenin, F.
The Effect of the CO_2/HCO_3^- Buffer System on the Membrane Potential of Frog Skeletal Muscle 371:179
Reggiani, C., Poggesi, C., Ricciardi, L., Minelli, R.
Time Course and Duration of the Depressant Effect of Active Shortening in Cardiac Muscle 385:273
Reichart, E., Claudon, F.
Intracellular pH Changes During Experimental Sustained Hypercapnia 380:105
Reicher, A., see Zweens, J., et al. 385:71
Reinhard, H.W., see Kaczmarczyk, G., et al. 373:49
Reinhardt, H.W., Eisele, R., Kaczmarczyk, G., Mohnhaupt, R., Oelkers, W., Schimmrich, B.
The Control of Sodium Excretion by Reflexes from the Low Pressure System Independent of Adrenal Activity. Experiments on Conscious Dogs 384:171
Reinhardt, H.W., Kaczmarczyk, G., Mohnhaupt, R., Simgen, B.
Atrial Natriuresis Under the Condition of a Constant Renal Perfusion Pressure. Experiments on Conscious Dogs 389:9
Reinhardt, H.W., see Kaczmarczyk, G., et al. 381:143
Reinhardt, H.W., see Kaczmarczyk, G., et al. 390:125
Reinhardt, H.W., see Kaczmarczyk, G., et al. 390:44
Reis, M.A., see Birnbaum, M., et al. 385:37
Rembold, H., see Häberle, D.A., et al. 375:9
Resch, W., see Loeschke, K. 372:91
Restorff, W. von, Holtz, J., Bassenge, E.
Exercise Induced Augmentation of Myocardial Oxygen Extraction in Spite of Normal Coronary Dilatory Capacity in Dogs 372:181
Restorff, W.V., see Holtz, J., et al. 377:177
Reynolds, M.I., see Little, R.A., et al. 384:261
Reznikova, M.B., see Postnov, Yu.V., et al. 384:183
Reznikova, M., see Postnov, Yu.V. 379:187
Ricciardi, L., see Reggiani, C., et al. 385:273
Richards, T.G., see Peters, A.M. 384:75
Richardson, P.D.I., Withrington, P.G.
The Effects of Intraportal Infusions of Glucagen on the Hepatic Arterial and Portal Venous Vascular Beds of the Dog: Inhibition of Hepatic Arterial Vasoconstrictor Responses to Noradrenaline 378:135
Richardson, P.D.I., see Granger, D.N., et al. 381:25
Richardson, P.D.I., see Withrington, P.G., et al. 388:37
Richter, D.W., Camerer, H., Meesmann, M., Röhrig, N.
Studies on the Synaptic Interconnection Between Bulbar Respiratory Neurones of Cats 380:245
Richter, D.W., Camerer, H., Sonnhof, U.
Changes in Extracellular Potassium During the Spontaneous Activity of Medullary Respiratory Neurones 376:139
Richter, D.W., see Kreuter, F., et al. 372:7
Rick, R., Dörge, A., Katz, U., Bauer, R., Thurau, K.
The Osmotic Behaviour of Toad Skin Epithelium (*Bufo viridis*). An Electron Microprobe Analysis 385:1
Rick, R., see Dörge, A., et al. 373:85
Riemer, J., Kölling, K., Mayer, C.J.
The Effect of Motilin on the Electrical Activity of Rabbit Circular Duodenal Muscle 372:243
Rietberg, B., see Perez, G.O., et al. 372:275
Rimmel, C., Walle, A., Keßler, H., Ulbricht, W.
Rates of Block by Procaine and Benzocaine and the Procaine-Benzocaine Interaction at the Node of Ranvier 376:105
Rindi, G., see Ferrari, G., et al. 376:47
Ringnalda, B.E.M., see Turek, Z., et al. 374:285
Ringnalda, B.E.M., see Turek, Z., et al. 376:209
Ringnalda, B.E.M., see Turek, Z., et al. 376:7
Ringnalda, B.E.M., see Turek, Z., et al. 376:201
Ringnalda, B.E.M., see Turek, Z., et al. 384:109
Riordan, K.K., Weiskopf, R.B., Townsley, M.I., Chadwick, K.R.
Oxygen-Linked Hydrogen Ion Binding of Canine Blood 390:99
Ripoll, E., Sillau, A.H., Banchero, N.
Changes in the Capillarity of Skeletal Muscle in the Growing Rat 380:153
Risch, W.D., Koubenec, H.-J., Beckmann, U., Lange, S., Gauer, O.H.
The Effect of Graded Immersion on Heart Volume, Central Venous Pressure, Pulmonary Blood Distribution and Heart Rate in Man 374:115
Risch, W.D., Koubenec, H.-J., Gauer, O.H., Lange, S.
Time Course of Cardiac Distension with Rapid Immersion in a Thermo-Neutral Bath 374:119
Risch, W.D., see Koubenec, H.-J., et al. 374:121
Rispens, P., Oeseburg, B., Zock, J.P., Zijlstra, W.G.
Intra-Aortic Decrease in Blood Plasma pH 386:97
Robberecht, P., see Chatelain, P., et al. 389:29
Robberecht, P., see Chatelain, P., et al. 389:21
Robberecht, P., see Chatelain, P., et al. 390:10
Roberts, M.L., Iwatsuki, N., Petersen, O.H.
Parotid Acinar Cells: Ionic Dependence of Acetylcholine-Evoked Membrane Potential Changes 376:159
Robertson, D., Johnstone, B.M.
Effects of Divalent Cations on Spontaneous and Evoked Activity of Single Mammalian Auditory Neurones 380:7
Robertson, S.P., Kerrick, W.G.L.
The Effects of pH on Ca^{2+}-Activated Force in Frog Skeletal Muscle Fibers 380:41
Robinson, J.W.L., Mirkovitch, V., Sepúlveda, F.V.
A Comparison of the Effects of Quabain and Ethacrynic Acid on the Dog Kidney in vivo and in vitro 371:9
Rocha e Silva, M. Jr., Celso de Lima, W., Castro de Souza, E.M.
Vasopressin Secretion in Response to Haemorrhage: Mathematical Modelling of the Factors Involved 376:185
Roche, M., see Bonvallet, R., et al. 390:237
Roch-Ramel, F., Diezi-Chométy, F., Roth, L., Weiner, I.M.
A Micropuncture Study of Urate Excretion by *Cebus* Monkeys Employing High Performance Liquid Chromatography with Amperometric Detection of Urate 383:203
Roch-Ramel, F., see Friedman, P.A. 372:239
Roch-Ramel, F., see Stoner, L.C. 382:7
Roddie, I.C., see Ohhashi, T., et al. 388:221
Rodionov, I.M., see Berdina, N.A. 383:245
Rodionov, I.M., see Berdina, N.A., et al. 378:149
Rodionov, I.M., see Kotz, Y.M., et al. 373:211

Rogausch, H.
Red Cell Deformability and Adaptation in Cholesterol-Fed Guinea Pigs 373:39
Rogausch, H.
Influence of Ca^{2+} on Red Cell Deformability and Adaptation to Sphering Agents 373:43
Rogers, M.A., see Constable, T.B., et al. 373:145
Rohliček, V., see Suzuki, K., et al. 378:141
Rohner-Jeanrenaud, F., see Seydoux, J., et al. 390:1
Röhrig, N., see Richter, D.W., et al. 380:245
Roinel, N.
Electron Probe Analysis of Microdroplets. Effect of Low Temperatures on the Stability of Characteristic Signals 390:54
Roinel, N., see Quamme, G.A., et al. 377:95
Roinel, N., see Rouffignac, C. de, et al. 390:138
Rojas, E., see Nonner, W., et al. 375:75
Rollema, H.S., see Weingarten, J.P., et al. 377:135
Roşca, V., see Haulică, I.D., et al. 373:15
Rosenberg, M.É., see Bliss, T.V.P. 381:209
Rosivall, L., Hope, A., Clausen, G.
Incomplete and Flow Dependent Extraction of ^{86}Rb in the Rat Kindney. Errors in Local Flow Estimation 390:216
Rossi, A., Olivares, J., Aussedat, J., Ray, A.
Changes in Myocardial Pyrimidine Nucleotide Levels Following Repeated Injections of Isoproterenol in Rats 390:5
Rossier, B.C., see Diezi, J., et al. 385:91
Roten, A., see Bollinger, A., et al. 382:137
Roth, L., see Roch-Ramel, F., et al. 383:203
Rothwell, N.J., Stock, M.J.
Influence of Noradrenaline on Blood Flow to Brown Adipose Tissue in Rats Exhibiting Diet-Induced Thermogenesis 389:237
Rouffignac, C. de, Bankir, L., Roinel, N.
Renal Function and Concentrating Ability in a Desert Rodent: The Gundi (*Ctenodactylus vali*) 390:138
Rouffignac, C. de, see Corman, B., et al. 389:45
Rouffignac, C. de, see Poujeol, P., et al. 371:39
Rouffignac, C. de, see Poujeol, P., et al. 387:27
Rouffignac, C. de, see Quamme, G.A., et al. 377:95
Rougier, O., see Bonvallet, R., et al. 390:237
Rougier, O., see Caillé, J., et al. 374:167
Rougier, O., see Caillé, J., et al. 379:117
Roulet, M.-J., Mongo, K.G., Vassort, G., Ventura-Clapier, R.
The Dependence of Twitch Relaxation on Sodium Ions and on Internal Ca^{2+} Stores in Voltage Clamped Frog Atrial Fibres 379:259
Rousseau, J.P., see Falempin, M., et al. 373:25
Roussel, B., Bittel, J.
Thermogenesis and Thermolysis During Sleeping and Waking in the Rat 382:225
Roussel, G., see Bonaventure, N., et al. 385:51
Roussel, B., Jordan, D., Cure, M., Ponsin, G., Orgiazzi, J.
Regulation of TSH Secretion in Rats Chronically Exposed to Heat (34° C) 375:177
Rowe, B.P., Noble, A.R., Munday, K.A.
Cross-Tachyphylaxis of the Pressor Response to Angiotensins in Conscious Rabbits 380:13
Rowe, B.P., Noble, A.R., Munday, K.A.
Cross-Tachyphylaxis of the Pressor Response to Angiotensins in Conscious Rabbits Pflügers Arch. 380, 13–17 (1979) 380:285
Rowe, B.P., Noble, A.R., Munday, K.A.
Blockade of Pressor Responses to Angiotensins I and II and Noradrenaline Using Phentolamine, Propranolol and Hexamethonium in Conscious Rabbits 382:269
Rowen, D., Law, R.O.
Renal Medullary Hexosamine Content Following Antidiuresis and Water-Loading in the Rat. Effects of Antisera Against Rat Urinary and Testicular Hyaluronidase 390:152
Roy, R., see Gardiner, P.F., et al. 385:147
Rubia, F.J., Hennemann, H.E.
Discharge Patterns of Purkinje Cells Activated through the Climbing Fiber System by Stimulation of Somatic and Visceral Afferents 375:125
Rubia, F.J., see Hennemann, H.E. 375:119
Rubin, A.M., Liedgren, S.R.C., Milne, A.G., Young, J.A., Fredrickson, J.M.
Vestibular and Somatosensory Interaction in the Cat Vestibular Nuclei 371:155
Rubio, R., see Belardinelli, L., et al. 380:19
Rüdel, R., see Dengler, R., et al. 380:145
Rüdel, R., see Zite-Ferenczy, F. 374:97
Rudolph, A.M., see Macdonald, A.A., et al. 390:262
Rüegg, J.C., Sparrow, M.P., Mrwa, U.
Cyclic-AMP Mediated Relaxation of Chemically Skinned Fibres of Smooth Muscle 390:198
Rüegg, J.C., see Griffiths, P.J., et al. 382:165
Rüegg, J.C., see Griffiths, P.J., et al. 382:155
Rüegg, J.C., see Griffiths, P.J., et al. 387:167
Rüegg, J.C., see Herzig, J.W., et al. 389:97
Ruffmann, K., see Gross, R., et al. 379:81
Ruhland, G., see Häberle, D.A., et al. 375:131
Ruhland, M., Bühler, R.
A New and Simple Technique for the Generation of Visual Evoked Potentials in Freely Moving Animals 382:279
Ruigrok, T.J.C., see Boink, A.B.T.J., et al. 385:105
Rumrich, G., see Ullrich, K.J., et al. 372:269
Rumrich, G., see Ullrich, K.J., et al. 375:9
Rumrich, G., see Ullrich, K.J., et al. 377:33
Rumrich, G., see Ullrich, K.J., et al. 383:159
Rumrich, G., see Ullrich, K.J., et al. 387:127
Rush, M.E., see Stone, M.H., et al. 375:147
Russel, B.J., see Ioffe, S., et al. 388:143
Russel, B.J., see Ioffe, S., et al. 388:149
Rutten, J., see Folgering, H., et al. 379:181
Ruzzier, F., Scuka, M.
Effect of Repetitive Stimulation on the Frog Neuromuscular Transmission 382:127

Sahlin, K., Palmskog, G., Hultman, E.
Adenine Nucleotide and IMP Contents of the Quadriceps Muscle in Man after Exercise 374:193
Sahlin, K., see Harris, R.C., et al. 389:277
Saibene, F., Mognoni, P., Lafortuna, C.L., Mostardi, R.
Oronasal Breathing During Exercise 378:65
Sakaguchi, M., Ohhashi, T., Azuma, T.
A Photoelectric Diameter Gauge Utilizing the Image Sensor 378:263
Sakaguchi, M., Ohhashi, T., Azuma, T.
A Camera-Type Diameter Applicable to Small Blood and Lymph Vessels 388:261
Sakaguchi, T., Warashina, A., Niijima, A.
Production of Elastic Electrodes for Nerve Stimulation 380:283
Sakai, A., see Tankano, N., et al. 390:56
Sakai, F., see Tomita, K., et al. 389:91
Sakanashi, M., see Nishi, K., et al. 372:53
Sakata, Y., see Murakami, N., et al. 379:113
Sakmann, B., see Neher, E., et al. 375:219
Salet, W.M., see Luijendijk, S.C.M., et al. 384:267
Salminen, A., Vihko, V.
Acid Proteolytic Capacity in Mouse Cardiac and Skeletal Muscles After Prolonged Submaximal Exercise 389:17
Salminen, A., see Vihko, V., et al. 378:99
Saltin, B., see Graham, T., et al. 376:35
Samaržija, I., see Edelman, A., et al. 378:37
Samodelov, L.F., Godehard, E., Arndt, J.O.
A Comparison of the Stimulus-Response Curves of Aortic and Carotid Sinus Baroreceptors in Decerebrated Cats 383:47
Samuel, J.-L., see Berson, G., et al. 374:277
Samwer, K.F., see Gutsche, H.-U., et al. 386:11
Saragagananda, B., see Sophasan, S. 381:165
Sarles, H., see Laugier, R., et al. 384:83
Sarles, H., see Pap, A., et al. 383:19

Sasaki, S., Imai, M.
Effects of Vasopressin on Water and NaCl Transport Across the in vitro Perfused Medullary Thick Ascending Limb of Henle's Loop of Mouse, Rat, and Rabbit Kidneys 383:215
Sassard, J., see Grandjean, B., et al. 373:161
Sato, F., see Sato, K. 390:49
Sato, H., Hasegawa, Y.
Reflex Changes in Discharge-Activities of Gamma Efferents to Varying Skin Temperatures in Cats 372:195
Sato, I., Hasegawa, Y., Hotta, K.
Autonomic Nervous Control of the Heart in Excercising Man 384:1
Sato, K., Sato, F.
Cyclic AMP Accumulation in the Beta Adrenergic Mechanism of Eccrine Sweat Secretion 390:49
Sattler, T., see Busse, R., et al. 390:113
Saumon, G., see Delavault, E. 385:259
Sawka, M.N., Petrofsky, J.S., Phillips, C.A.
Energy Cost of Submaximal Isometric Contractions in Cat Fast and Slow Twitch Muscles 390:164
Scales, J.L., see Kleinert, H.D., et al. 383:105
Schabert, A., Bauer, R.D., Busse, R.
Photoelectric Device for the Recording of Diameter Changes of Opaque and Transparent Blood Vessels in vitro 385:239
Schabert, A., see Bauer, R.D., et al. 380:221
Schabert, A., see Busse, R., et al. 390:113
Schad, H., Brechtelsbauer, H.
Thoracic Duct Lymph Flow and Composition in Conscious Dogs and the influence of Anaesthesia and Passive Limb Movement 371:25
Schad, H., Brechtelsbauer, H.
The Effect of Saline Loading and Subsequent Anaesthesia on Thoracic Duct Lymph, Transcapillary Protein Escape and Plasma Protein of Conscious Dogs 378:127
Schad, H., Flowaczny, H., Brechtelsbauer, H., Birkenfeld, G.
The Significance of Respiration for Thoracic Duct Flow in Relation to Other Driving Forces of Lymph Flow 378:121
Schalow, G., Schmidt, H.
Effect of Nerve Length and Temperature on the Induction of Action Potentials in Denervated Slow Muscle Fibres of the Frog 372:17
Scharrer, E.
Concentrative Amino Acid Uptake at the Serosal Side of Colon Mucosa 376:245
Scharrer, E., Amann, B.
Evidence for Carrier-Mediated Uptake of Sugars at the Serosal Side of Lamb Colon Mucosa 384:279
Scharrer, E., Hosser, M.
Effect of Feeding a High Protein Diet on Solute-Coupled Water Absorption from Rat Colon 388:165
Schartl, S., see Fischer, F.H., et al. 373:179
Scheid, P., see Meyer, M., et al. 376:237
Scheid, P., see Weingarten, J.P., et al. 377:135
Schettino, T., Cremaschi, D., Lippe, C., Lamina-Donin, C.L., Cotelli, F.
Nonelectrolyte Fluxes Across Gastric Mucosa in Relation to Gastric Stimulation. Is Gastric Juice Secreted by Osmosis or Exocytosis? 387:269
Schettino, T., Curci, S.
Intracellular Potassium Activity in Epithelial Cells of Frog Fundic Gastric Mucosa 383:99
Schiereck, P., Boom, H.B.K.
Left Ventricular Active Stiffness: Dependency on Time and Inotropic State 374:135
Schiereck, P., Boom, H.B.K.
Left Ventricular Force-Velocity Relations Measured from Quick Volume Changes 379:251
Schiff, E.R., see Perez, G.O., et al. 372:
Schiff, J.D., Overweg, N.I.A.
Effects of Increasing Osmolality on Rat Ileal Smooth Muscle 389:75
Schifferdecker, E,, Frömter, E.
The AC Impedance of Necturus Gallbladder Epithelium 377:125
Schiffl, H., see Häberle, D.A., et al. 375:9
Schiffl, H., Loeschke, K.
Induction of Na-K-ATPase in Plasma Membranes of Rat Cecum Mucosa by Diet: Time Course and Kinetics 372:83
Schilling, A.R., see Hansen, L.L., et al. 389:121
Schimmrich, B., see Kaczmarczyk, G., et al. 381:143
Schimmrich, B., see Reinhardt, H.W., et al. 384:171
Schipperheyn, J.J., see Hendriks, F.F.A., et al. 388:197
Schlaefke, M.E., Kille, J.F., Loeschcke, H.H.
Elimination of Central Chemosensitivity by Coagulation of a Bilateral Area on the Ventral Medullary Surface in Awake Cats 378:231
Schlaefke, M.E., See, W.R., Herker-See, A., Loeschcke, H.H.
Respiratory Response to Hypoxia and Hypercapnia after Elimination of Central Chemosensitivity 381:241
Schlaefke, M.E., see Loeschcke, H.H., et al. 381:249
Schläfke, M.E., see Fukuda, Y., et al. 376:229
Schleupner, R., see Peiper, U., et al. 378:25
Schlör, K.H., see Stock, G., et al. 376:177
Schmid, H., see Horster, M., et al. 384:203
Schmid-Schönbein, H., see Driessen, G.K., et al. 380:1
Schmid-Schönbein, H., see Driessen, G.K., et al. 388:75
Schmidt, F., see Gaehtgens, P., et al. 390:278
Schmidt, F., see Gaehtgens, P., et al. 390:283
Schmidt, H., see Lehmann, N. 352:43
Schmidt, H., see Schalow, G. 372:17
Schmidt, I.
Interactions of Behavioral and Automatic Thermoregulation in Heat Stressed Pigeons 374:47
Schmidt, I., Simon, E.
Temperature Changes of the Hypothalamus and Body Core in Ducks Feeding in Cold Water 378:227
Schmidt, U., see Horster, M., et al. 384:203
Schmidtmayer, J., Ulbricht, W.
Interaction of Lidocaine and Benzocaine in Blocking Sodium Channels 387:47
Schmidweier, E., see Ploth, D.W., et al. 375:261
Schmitz, H.-J., see Osswald, H., et al. 371:45
Schmitz, L., see Fischer, F.H., et al. 373:179
Schneider, W., Wahl, M., Kuschinsky, W., Thurau, K.
The Use of Microelectrodes for Measurement of Local H^+ Activity in the Cortical Subarachnoidal Space of Cats 372:103
Schnell, K.F., Besl, E., Manz, A.
Asymmetry of the Chloride Transport System in Human Erythrocyte Ghosts 375:87
Schnermann, J., Schubert, G., Hermle, M., Herbst, R., Stowe, N.T., Yarimizu, S., Weber, P.C.
The Effect of Inhibition of Prostaglandin Synthesis on Tubuloglomerular Feedback in the Rat Kidney 379:269
Schnermann, J., see Moore, L.C., et al. 387:39
Schnermann, J., see Persson, A.E.G., et al. 381:99
Schnermann, J., see Ploth, D.W., et al. 375:261
Schnerr, M.C., see Stienen, G.J.M., et al. 376:97
Schoenenberger, G.A., Maier, P.F., Tobler, H.J., Wilson, K., Monnier, M.
The Delta EEG (Sleep)-Inducing Peptide (DSIP). XI. Amino-Acid Analysis, Sequence, Synthesis and Activity of the Nonapeptide 376:119
Schofield, B., see Davison, J.S. 386:53
Scholfield, C.N.
Potentiation of Inhibition by General Anaesthetics in Neurones of the Olfactory Cortex in vitro 383:249
Schoun, J., see Möhring, J., et al. 387:91
Schoun, J., see Simon-Oppermann, Ch., et al. 387:99
Schrader, J., Baumann, G., Gerlach, E.
Adenosine as Inhibitor of Myocardial Effects of Catecholamines 372:29
Schrader, J., Nees, S., Gerlach, E.
Radioimmunoassay for Adenosine in Biological Samples 378:167

Schrader, J., Wahl, M., Kuschinsky, W., Kreutzberg, G.W.
Increase of Adenosine Content in Cerebral Cortex of the Cat During Bicuculline-Induced Seizure 387:245
Schrauwen, E., Houvenaghel, A.
Substance P: A Powerful Intestinal Vasodilator in the Pig 386:281
Schreurs, A.W., see Molenaar, J., et al. 383:173
Schriber, H.
Electrophysiological Investigation of the Archistriato-Hypothalamic Pathway in the Pigeon *(Columba livia)* 375:31
Schröder, H., see Leichtweiß, H.-P. 390:80
Schröder, H., see Leichtweiss, H.-P. 371:251
Schubert, G., see Moore, L.C., et al. 387:39
Schubert, G., see Schnermann, J., et al. 379:269
Schuhmacher, H., see Grünewald-Zuberbier, E., et al. 389:55
Schuil, H.A., see Brunsting, J.R., et al. 381:293
Schultz, R., Bittar, E.E.
Studies of the Mode of Stimulation by External Acidification and Raising the Internal Free Calcium Concentration of the Sodium Efflux in Barnacle Muscle Fibers 374:31
Schultz, R., Bittar, E.E.
Further Studies of the Mechanism of Stimulation by External Acidification of the Sodium Efflux in Barnacle Muscle Fibers 374:219
Schulze, H.-G., see Lutz, J., et al. 376:1
Schumacher, E., see Hirche, H., et al. 387:231
Schumann, H., see Koppenhöfer, E. 390:288
Schut, J.K., see Oeseburg, B., et al. 386:95
Schwartz-Porsche, D., see Kapteina, F.W., et al. 374:23
Schwarz, W.
Temperature Experiments on Nerve and Muscle Membranes of Frogs. Indications for a Phase Transition 382:27
Schwarz, W., see Neumcke, B., et al. 387:9
Schwarz, W., see Neumcke, B., et al. 390:230
Scratcherd, T., see Andrews, P.L.R., et al. 387:55
Scuka, M., see Ruzzier, F. 382:127
Secrist, D.J., Kerrick, W.G.L.
Associated Changes in Ca^{2+} and Sr^{2+} Activation Properties and Fiber Proteins in Cross-Reinnervated Rabbit Soleus 384:219
See, W.R., see Fukuda, Y., et al. 388:53
See, W.R., see Loeschcke, H.H., et al. 381:249
See, W.R., see Schlaefke, M.E., et al. 381:241
Seedorf, U., see Srihari, T., et al. 390:246
Sehlin, J., Täljedal, I.-B.
$^{45}Ca^{2+}$ Uptake by Dispersed Pancreatic Islet Cells: Effects of d-Glucose and the Calcium Probe, Chlorotetracycline 381:281
Sehlin, J., see Hellman, B., et al. 378:93
Seidl, E., see Weigelt, H., et al. 388:137
Seiller, W., Gertz, K.-H.
Single Nephron Filtration, Luminal Flow and Tubular Fluid Reabsorption along the Proximal Convolution and the Pars recta of the Rat Kidney as Influenced by Luminal Pressure Changes 371:235
Seitz, H.J., Krone, W., Wilke, H., Tarnowski, W.
Rapid Rise in Plasma Glucagon Induced by Acute Cold Exposure in Man and Rat 389:115
Seitz, H.J., see Müller, M.J. 386:47
Seitz, J., see Frankel, H.M., et al. 384:143
Seller, H., see Amendt, K., et al. 375:289
Senekowitsch, R., see Kreuter, F., et al. 372:7
Sener, A., see Somers, G., et al. 388:249
Sepúlveda, F.V., see Robinson, J.W.L., et al. 371:9
Sewell, D., see Neill, W.A., et al. 388:193
Seydoux, J., Rohner-Jeanrenaud, F., Assimacopoulos-Jeannet, F., Jeanrenaud, B., Girardier, L.
Functional Disconnection of Brown Adipose Tissue in Hypothalamic Obesity in Rats 390:1
Seylaz, J., see Pinard, E. 375:25
Seylaz, J., see Pinard, E., et al. 379:165
Shainberg, A., see Birnbaum, M., et al. 385:37
Shalita, B., Dikstein, S.
d-Tyrosine Prevents Hypertension in DOCA-Saline Treated Uninephrectomised Rats 379:245
Shapiro, Y., see Magazanik, A., et al. 388:129
Shevchenko, A., see Postnov, Yu.V., et al. 371:263
Shibolet, S., see Magazanik, A., et al. 388:129
Shligai, T., see Mason, J., et al. 380:233
Siegenbeek van Heukelom, J., see Groot, J.A., et al. 379:1
Siemkowicz, E.
Cerebrovascular Resistance in Ischemia 388:243
Siemkowicz, E., see Hansen, A.J., et al. 389:1
Silbernagel, S., see Günther, R., et al. 382:109
Silbernagel, S., see Völkl, H., et al. 382:115
Silbernagl, S.
The Role of Brush Border Enzymes in Tubular Reabsorption of Disaccharides 371:141
Silbernagl, S., see Günther, R. 389:137
Silbernagl, S., see Lang, F., et al. 386:239
Silbernagl, S., see Völkl, H. 387:253
Sillau, A.H., Aquin, L., Bui, M.V., Banchero, N.
Chronic Hypoxia Does not Affect Guinea Pig Skeletal Muscle Capillarity 386:39
Sillau, A.H., Cueva, S., Morales, P.
Pulmonary Arterial Hypertension in Male and Female Chickens at 3,300 m 386:269
Sillau, A.H., see Aquin, L., et al. 385:223
Sillau, A.H., see Ripoll, E., et al. 380:153
Silva, P., see Eveloff, J., et al. 378:87
Silva, P., see Eveloff, J., et al. 389:263
Simgen, B., see Kaczmarczyk, G., et al. 390:125
Simgen, B., see Reinhardt, H.W., et al. 389:9
Simon, E., see Deutsch, H. 387:1
Simon, E., see Möhring, J., et al. 387:91
Simon, E., see Schmidt, I. 378:227
Simon, E., see Simon-Oppermann, Ch., et al. 378:213
Simon, E., see Simon-Oppermann, Ch., et al. 387:99
Simon-Oppermann, C., Martin, R.
Mammalian-Like Thermosensitivity in the Lower Brainstem of the Pekin Duck 379:291
Simon-Oppermann, Ch., Hammel, H.T., Simon, E.
Hypothalamic Temperature and Osmoregulation in the Pekin Duck 378:213
Simon-Oppermann, Ch., Simon, E., Deutsch, H., Möhring, J., Schoun, J.
Serum Arginine-Vasotocin (AVT) and Afferent and Central Control of Osmoregulation in Conscious Pekin Ducks 387:99
Simon-Oppermann, Ch., see Möhring, J., et al. 387:91
Simpson, D.R., see Gardiner, P.F., et al. 385:147
Sinet, M., see Castaing, M. 386:135
Singer, J.J., see Walsh, J.V., Jr. 390:207
Sitnikov, B.F., see Kotz, Y.M., et al. 373:211
Sjøgaard, G., see Graham, T., et al. 376:35
Skadhauge, E., Thomas, D.H.
Transepithelial Transport of K^+, NH_4^+, Inorganic Phosphate and Water by Hen (*Gallus domesticus*) Lower Intestine (Colon and Coprodeum) Perfused Luminally in vivo 379:237
Skadhauge, E., see Lyngdorf-Henriksen, P., et al. 378:161
Skadhauge, E., see Thomas, D.H. 379:229
Skliar, M.I., see Locatto, M.E., et al. 389:81
Skobelev, V.A., see Lebedev, V.P., et al. 383:91
Skolasinska, K., see Wodick, R., et al. 374:91
Slegers, J.F.G., see Brink, H.M. 383:71
Smail, B.H., see Bullivant, M., et al. 389:251
Smeds, S.
On the Distribution of Thyroglobin and Larger Iodoproteins in Single Rat Thyroid Follicles 372:145
Smith, D.M.
Miniature Stimulator for Chronic Animals 376:93
Smith, M.E., see Harborne, A.J., et al. 377:147
Smith, R.P., Kruszyna, R., Ou, L.-C.
Hemoglobinemia in Mice Exposed to High Altitude 380:65

Smolders, F., see Folgering, H. 383:9
Smolders, F.D.J., Folgering, H.Th., Bernards, J.A.
Capnostat and Oxystat. Electronic Devices to Automatically Maintain the End-Tidal P_{co_2} and P_{o_2} of a Subject Connected to a Closed Respiratory Circuit at Adjustable Levels 372:289
Smolders, F.D.J., Folgering, H.Th.M.
Description of the Firing Pattern of Respiratory Neurons by Frequency Modulated Interspike Interval Distributions 383:1
Smolders, F.D.J., see Folgering, H., et al. 375:1
Snapir, N., see Wolfenson, D., et al. 390:86
Sofola, O.A., see Greenwood, P.V., et al. 386:199
Solomon, S., see Caflisch, C.R., et al. 380:121
Somers, G., Devis, G., Malaisse, W.J.
The Stimulus-Secretion Coupling of Glucose-Induced Insulin Release. XL. Effect of K^+ Deprivation upon Insulin Release by the Perfused Rat Pancreas 385:217
Somers, G., Sener, A., Devis, G., Malaisse, W.J.
The Stimulus-Secretion Coupling of Glucose-Induced Insulin Release. XLV. The Anion-Osmotic Hypothesis for Exocytosis 388:249
Sommer, O., see Bünger, R., et al. 380:259
Sonnenberg, H.
Effects of Furosemide, Acetazolamide, and Mannitol on Medullary Collecting-Duct Function in the Rat Kidney 373:113
Sonnenberg, H., Wilson, D.R.
Urea Handling by the Medullary Collecting Duct of the Rat Kidney during Hydropenia and Urea Infusion 390:131
Sonnhof, U., Bührle, Ch.P.
On the Postsynaptic Action of Glutamate in Frog Spinal Motoneurons 388:101
Sonnhof, U., see Richter, D.W., et al. 376:139
Sonsom, S., see Knight, T.F., et al. 373:139
Sophasan, S., Saragganandа, B.
Renal Blood Flow after Bilateral Ureteral Ligation in the Rat 381:165
Sowa, W., see Grunewald, W.A. 374:57
Spaan, J.A.E., Garred, L.J., Borne, P. van de
Use of a Wedge Cuvette in Thin Layer Photometry and Its Application to Oximetry 372:279
Spaan, J.A.E., Kreuzer, F., Hoofd, L.
A Theoretical Analysis of Nonsteady-State Oxygen Transfer in Layers of Hemoglobin Solution 384:231
Spaan, J.A.E., Kreuzer, F., Wely, F.K. van
Diffusion Coefficients of Oxygen and Hemoglobin as Obtained Simultaneously from Photometric Determination of the Oxygenation of Layers of Hemoglobin Solutions 384:241
Sparrow, M.P., see Rüegg, J.C., et al. 390:198
Sperelakis, N., see Harder, D.R. 378:111
Spilok, N., see Jänig, W. 377:25
Spindler, A.J., see Lederer, W.J., et al. 381:287
Spitzer, K.W., Walker, J.L.
Changes in Liquid-Junction Potential Following Chloride Replacement in Cat Papillary Muscle 382:281
Splawiński, J.A., Górka, Z., Zacny, E., Wojtaszek, B.
Hyperthermic Effects of Arachidonic Acid, Prostaglandin E_2 and $F_{2\alpha}$ in Rats 374:15
Sporer, H., see Greger, R., et al. 384:105
Sporer, H., see Oberleithner, H., et al. 379:37
Spyer, K.M., see Favilla, M., et al. 384:193
Srihari, T., Seedorf, U., Pette, D.
Ipsi- and Contralateral Changes in Rabbit Soleus Myosins by Cross-Reinnervation 390:246
Stämpfli, R., see Neumcke, B., et al. 387:9
Stämpfli, R., see Neumcke, B., et al. 390:230
Stämpfli, R., see Nonner, W., et al. 375:75
Stamps, L., see Kerrick, W.G.L., et al. 381:53
Standen, N.B., Stanfield, P.R.
Inward Rectification in Skeletal Muscles: A Blocking Particle Model 378:173
Standen, N.B., see Mackenzie, E. 383:185
Stanfield, P.R., see Gay, L.A. 378:177
Stanfield, P.R., see Standen, N.B. 378:173
Stange, G., see Alvarado, F., et al. 382:35
Stanojević, M., Erway, L., Ghelarducci, B., Pompeiano, O., Willis, W.D., Jr.
A Comparison of the Response Characteristics of Cerebellar Fastigial and Vermal Cortex Neurons to Sinusoidal Stimulation of Macular Vestibular Receptors 385:95
Stanojević, M., see Denoth, F., et al. 381:87
Steinacker, A., see Metzger, H., et al. 388:21
Steinbach, J.H., see Neher, E., et al. 375:219
Steinhausen, M., Tillmanns, H., Thederan, H.
Microcirculation of the Empimyocardial Layer of the Heart. I. A Method for in vivo Observation of the Microcirculation of Superficial Ventricular Myocardium of the Heart and Capillary Flow Pattern under Normal and Hypoxic Conditions 378:9
Stephens, N.L., Claes, V.A., Brutsaert, D.L.
Relaxation of Tetanized Canine Tracheal Smooth Muscle 390:175
Stern, H., see Burckhardt, G., et al. 390:191
Stern, P., see LaRochelle, F.T., Jr., et al. 387:79
Sterz, R., see Hohlfeld, R., et al. 390:156
Stettmeier, H., see Dudel, J., et al. 387:143
Stettmeier, H., see Finger, W. 387:133
Steven, K., see Jensen, P.K. 382:179
Steven, K., see Koch Jensen, P. 371:245
Stiegler, H., see Bünger, R., et al. 380:259
Stienen, G.J., Blangé, T., Schnerr, M.C.
Tension Responses of Frog Sartorius Muscle to Quick Ramp-Shaped Shortenings and Some Effects of Metabolic Inhibition 376:97
Stieve, H., see Hartung, K. 387:225
Stock, C., see Bauduin, H., et al. 372:69
Stock, G., Schlör, K.H., Heidt, H., Buss, J.
Psychomotor Behaviour and Cardiovascular Patterns During Stimulation of the Amygdala 376:177
Stock, M.J., see Rothwell, N.J. 389:237
Stockinger, P., see Lang, F., et al. 386:239
Stoff, J., see Eveloff, J., et al. 378:87
Stöhr-Liesen, M., see Haest, C.W.M., et al. 388:69
Stoll, R., Kinne, R., Murer, H., Fleisch, H., Bonjour, J.-P.
Phosphate Transport by Rat Renal Brush Border Membrane Vesicles: Influence of Dietary Phosphate, Thyroparathyroidectomy, and 1,25-Dihydroxyvitamin D_3 380:47
Stolte, H., see Galaske, R.G., et al. 375:269
Stone, M.H., Lipner, H.
Responses to Intensive Training and Methandrostenelone Administration: I. Contractile and Performance Variables 375:141
Stone, M.H., Rush, M.E., Lipner, H.
Responses to Intensive Training and Methandrostenelone Administration: II. Hormonal, Organ Weights, Muscle Weights and Body Composition 375:147
Stoner, H.B., see Little, R.A., et al. 384:261
Stoner, L.C., Roch-Ramel, F.
The Effects of Pressure on the Water Permeability of the Descending Limb of Henle's Loops of Rabbits 382:7
Storelli, C., Corcelli, A., Cassano, G., Hildmann, B., Murer, H., Lippe, C.
Polar Distribution of Sodium-Dependent and Sodium-Independent Transport System for l-Lactate in the Plasma Membrane of Rat Enterocytes 388:11
Storelli, C., Murer, H.
On the Correlation Between Alkaline Phosphatase and Phosphate Transport in Rat Renal Brush Border Membrane Vesicles 384:149
Stowe, N.T., see Schnermann, J., et al. 379:269
Strats, P., see Belcari, P., et al. 371:147
Strata, P., see Montarolo, P.G., et al. 383:137
Straub, R.W., see Danisi, G. 385:117
Straub, R.W., see Danisi, G., et al. 388:227
Strüber, J., see Metzger, H., et al. 368:21

Struycker-Boudier, H., see Evenwel, R. 381:19
Stubbs, J., see Kaczmarczyk, G., et al. 390:125
Štulc, J., Stulcová, B.
Lack of Effect of Ouabain on Sodium Transport across the Rat Placenta 381:79
Stulcová, B., see Štulc, J. 381:79
Stupfel, M., Costagliola, D.
Lifelong Variations in Heart Rates in SPF Sprague Dawley Rats of Both Sexes. Statistical Correlations with Body Weights 380:189
Stürup-Johansen, M., see Mølgaard, H., et al. 383:181
Su, C.Y., see Lin, M.T., et al. 382:87
Su, J.Y.
Effects of Halothane on Functionally Skinned Rabbit Soleus Muscle Fibers: A Correlation Between Tension Transient and ^{45}Ca Release 388:63
Su, J.Y., Kerrick, W.G.L.
Effects of Halothane on Ca^{2+}-Activated Tension Development in Mechanically Disrupted Rabbit Myocardial Fibers 375:111
Su, J.Y., Kerrick, W.G.L.
Effects of Halothane on Caffeine-Induced Tension Transients in Functionally Skinned Myocardial Fibers 380:29
Sugawara, K., see Negishi, K., et al. 375:53
Sugawara, K., see Negishi, K., et al. 375:61
Sullivan, S.F., see Krausz, S. 388:79
Summa, Y., see Bauer, R.D., et al. 380:221
Surprenant, A.
A Comparative Study of Neuromuscular Transmission in Several Mammalian Muscular Arteries 386:85
Susić, D., Kentera, D.
Potentiating Effect of Gonadectomy Performed in Immature Male Rats on the Development of Salt Hypertension 389:301
Sušić, D., Kentera, D.
Role of the Renal Medulla in the Resistance of Rats to Salt Hypertension 384:283
Süsskind, R., see Grote, J., et al. 372:37
Sutton, P.M.I.
The Interaction Between Reflex Apnoea and Bradycardia Produced by Injecting 5-HT into the Nodose Ganglion of the Cat 389:181
Suzuki, H., see Casteels, R. 387:17
Suzuki, K., Frömter, E.
The Potential and Resistance Profile of Necturus Gallbladder Cells 371:109
Suzuki, K., Rohlíček, V., Frömter, E.
A Quasi-Totally Shielded, Low-Capacitance Glass-Microelectrode with Suitable Amplifiers for High-Frequency Intracellular Potential and Impedance Measurements 378:141
Swynghedauw, B., see Berson, G., et al. 374:277
Syka, J., see Melichar, I. 372:207
Syrový, I., see Vyskočil, F., et al. 390:265
Szabó, B., see Kovács, T., et al. 390:250

Takabatake, T., see Mason, J., et al. 373:69
Takabatake, T., see Olbricht, C., et al. 372:251
Takács, L., see Farsang, C., et al. 379:223
Takács, L., see Farsang, C., et al. 380:211
Takaki, M., Neya, T., Nakayama, S.
Sympathetic Activity in the Recto-Rectal Reflex of the Guinea Pig 388:45
Takano, N.
Redistribution of Hydrogen Ion and Chloride, and Water Shift across the Red Cell Membrane of Human and Ruminant Blood with Changes in Oxygen Saturations 376:27
Takenaka, F., see Nishi, K., et al. 372:53
Täljedal, I.-B., see Hellman, B., et al. 378:93
Täljedal, I.-B., see Sehlin, J. 381:281
Tanche, M., see Lucas, A., et al. 388:83
Tangkrisanavinont, V., Pholpramool, C.
Extracellular free Calcium and Fluid Secretion by the Rabbit Lacrimal Gland in vivo 382:275
Tankano, N., Sakai, A., Iida, Y.
Analysis of Alveolar P_{CO_2} Control during the Menstrual Cycle 390:56
Taquini, A.C., see Villamil, M.F., et al. 390:260
Tarnowski, W., see Seitz, H.J., et al. 389:115
Tasaka, K., Williams, L., Farrar, J.T.
Characteristics of Intraluminal Pressure Sensing Balloons of Different Materials 379:303
Taylor, A.E., see Granger, D.N., et al. 381:25
Taylor, C.J., see Garland, H.O., et al. 381:11
Tebbe, U., see Meyer, M., et al. 384:131
Teisinger, J., see Dlouhá, H., et al. 380:101
Teisseire, B., see Bursaux, E., et al. 378:197
Teisseire, B., see Martin, J.L., et al. 382:57
Teisseire, B., see Poyart, C., et al. 376:169
Teissinger, J., see Bass, A., et al. 379:203
Templeton, D.
Augmented Amylase Release from Rat Parotid Gland Slices, in vitro 384:287
Thederan, H., see Steinhausen, M., et al. 378:9
Therminarias, A., see Lucas, A., et al. 388:83
Thiemann, V., see Eggert, P., et al. 382:63
Thijssen, J.M., Laak, J.J. ter, Weil, P.M.A. van
Masking, De Lange Curves and Integration Time as Revealed by the Electroretinogram of the Tree Shrew *(Tupaia chinensis)* 373:199
Thoden, U., see Wenzel, D., et al. 374:107
Thomas, D.H., Skadhauge, E.
Dietary Na^+ Effects on Transepithelial Transport of NaCl by Hen (*Gallus domesticus*) Lower Intestine (Colon and Coprodeum) Perfused Luminally in vivo 379:229
Thomas, D.H., see Skadhauge, E. 379:237
Thomas, D.P., Fregin, G.F., Gerber, N.H., Ailes, N.B.
Cardiorespiratory Adjustments to Tethered-Swimming in the Horse 385:65
Thomas, R., see Corman, B., et al. 389:45
Thomas, R.C., Cohen, C.J.
A Liquid Ion-Exchanger Alternative to KCl for Filling Intracellular Reference Microelectrodes 390:96
Thompson, G.E., see Thomson, E.M., et al. 383:241
Thompson, J., Brice, J.E.H., Kurdy, N.M.G., Walker, C.H.M.
A Modified Open-Circuit Method for Estimation of Oxygen Consumption and Carbon Dioxide Excretion in Adults, Infants and Small Animals 380:197
Thomson, E.M., Forsling, M.L., Thompson, G.E.
The Effect of Cold Exposure on Fluid Balance Circulating Arginine Vasopressin Concentration and Milk Secretion in the Goat 383:241
Thomson, E.M., Pieschka, K.
Vasodilatory Mechanisms in the Tongue and Nose of the Dog under Heat Load 387:161
Thomson, J.A., Green, H.J., Houston, M.E.
Muscle Glycogen Depletion Patterns in Fast Twitch Fibre Subgroups of Man During Submaximal and Supramaximal Exercise 379:105
Thornbury, K.D., see Ohhashi, T., et al. 388:221
Thurau, K., see Dörge, A., et al. 373:85
Thurau, K., see Mason, J., et al. 373:69
Thurau, K., see Olbricht, C., et al. 372:251
Thurau, K., see Rick, R., et al. 385:1
Thurau, K., see Schneider, W., et al. 372:103
Thurlby, P.L., Trayhurn, P.
Regional Blood Flow in Genetically Obese (ob/ob) Mice The Importance of Brown Adipose Tissue to the Reduced Energy Expenditure on Non-Shivering Thermogenesis 385:193
Tillmanns, H., see Steinhausen, M., et al. 378:9
Timeus, Ch., see Bollinger, A., et al. 382:137
Tkhorevsky, V.I., see Berdina, N.A., et al. 378:149
Tkhorevsky, V.I., see Kotz, Y.M., et al. 373:211
Tobler, H.J., see Schoenenberger, G.A., et al. 376:119

Toda, N., Hatano, Y., Hayashi, S.
Modifications by Stretches of the Mechanical Response of Isolated Cerebral and Extracerebral Arteries to Vasoactive Agents 374:73
Tohyama, K., see Umesaki, Y., et al. 388:205
Tokura, H., Aschoff, J.
Circadian Activity Rhythms of the Pig-Tailed Macaque, Macaca nemestrina, Under Constant Illumination 376:241
Tomita, K., Endou, H., Sakai, F.
Localization of Kallikrein-Like Activity Along a Single Nephron in Rabbits 389:91
Torresani, J., see Goglia, F., et al. 390:120
Tosco, M., see Esposito, G., et al. 382:67
Tosco, M., see Esposito, G., et al. 390:202
Tosco, M., see Faelli, A., et al. 385:143
Tost, H., see Köver, G. 372:215
Touvay, C., see Poujeol, P., et al. 371:39
Townsley, M.I., see Riordan, K.K., et al. 390:99
Trappl, R., Lützow, A. v., Wündsch, L., Bornschein, H.
A Second Order Model of the Optic Generator Potential and Its Relation to Stevens' Power Function 372:165
Trautwein, W., McDonald, T.F.
Current-Voltage Relations in Ventricular Muscle Preparations from Different Species 374:79
Trautwein, W., see DiFrancesco, D., et al. 381:271
Trautwein, W., see DiFrancesco, D., et al. 387:83
Trautwein, W., see McDonald, T.F., et al. 385:175
Trautwein, W., see Noma, A. 377:193
Trautwein, W., see Noma, A., et al. 381:263
Trautwein, W., see Noma, A., et al. 381:255
Trautwein, W., see Osterrieder, W., et al. 386:101
Trautwein, W., see Osterrieder, W., et al. 389:283
Trayhurn, P.
Thermoregulation in the Diabetic-Obese (db/db) Mouse. The Role of Non-Shivering Thermogenesis in Energy Balance 380:227
Trayhurn, P., James, W.P.T.
Thermoregulation and Non-Shivering Thermogenesis in the Genetically Obese (ob/ob) Mouse 373:189
Trayhurn, P., see Thurlby, P.L. 385:193
Trube, G.
Contractions of Skinned Cardiac Cells Elicited by Current Pulses 376:217
Trube, G.
Anion Dependence of the Contractions of Skinned Cardiac Cells 379:121
Tsang, A.Y.F., see Wong, P.Y.D., et al. 387:61
Tsuchiya, K., Iriki, M.
Antagonistic Changes of Gastric and Colonic Motility During Selective Thermal Stimulation of Thoracic and Lumbosacral Cords in Anesthetized Dogs 388:233
Tsuchiya, K., see Hales, J.R.S., et al. 375:17
Tsurutani, T., see Nakayama, T., et al. 380:59
Tsuzuki, S., see Hori, T. 390:219
Tucker, B.J., Blantz, R.C.
Studies on the Mechanism of Reduction in Glomerular Filtration Rate after Benzolamide 388:211
Tulloch, I., see Carstens, E., et al. 379:143
Turek, Z., Claessens, R., Ringnalda, B.E.M., Kreuzer, F.
Blood Volume and Body Haematocrit of Rats Native to a Simulated Altitude of 3,500 m 374:285
Turek, Z., Grandtner, M., Kubát, K., Ringnalda, B.E.M., Kreuzer, F.
Arterial Blood Gases, Muscle Fiber Diameter and Intercapillary Distance in Cardiac Hypertrophy of Rats with an Old Myocardial Infarction 376:209
Turek, Z., Kreuzer, F., Ringnalda, B.E.M.
Blood Gases at Several Levels of Oxygenation in Rats with a Left-Shifted Blood Oxygen Dissociation Curve 376:7
Turek, Z., Kreuzer, F., Turek-Maischeider, M., Ringnalda, B.E.M.
Blood O_2 Content, Cardiac Output, and Flow to Organs at Several Levels of Oxygenation in Rats with a Left-Shifted Blood Oxygen Dissociation Curve 376:201
Turek, Z., Ringnalda, B.E.M., Morán, O., Kreuzer, F.
Oxygen Transport in Guinea Pigs Native to High Altitude (Junin, Peru, 4,105 m) 384:109
Turek, Z., see Frans, A., et al. 380:35
Turek-Maischeider, M., see Turek, Z., et al. 376:201
Tyryshina, E.M., Ivanova, L.N., Finkinstein, Y.D.
Participation of the Liver Receptors in the Regulation of Ion Composition, Osmolality and Extracellular Fluid Volume 390:270
Tzaneva, N., see Natcheff, N., et al. 371:279

Uchimura, H., see Murakami, N., et al. 379:113
Ueda, N., see Petersen, O.H., et al. 372:231
Uhrik, B., Novotová, M., Zachar, J.
A Quantitative Estimation of Components in Crayfish Muscle Fibres by Stereological Methods 387:281
Ujec, E., Keller, O., Machek, J., Pavlik, V.
Low Impedance Coaxial K^+ Selective Microelectrodes 382:189
Ulbricht, W., see Rimmel, C., et al. 376:105
Ulbricht, W., see Schmidtmayer, J. 387:47
Ullrich, K.J., Papavassiliou, F.
Sodium Reabsorption in the Papillary Collecting Duct of Rats. Effect of Adrenalectomy, Low Na^+ Diet, Acetazolamide, HCO_3^- – Free Solutions and of Amiloride 379:49
Ullrich, K.J., Papavassiliou, F.
Bicarbonate Reabsorption in the Papillary Collecting Duct of Rats 389:271
Ullrich, K.J., Rumrich, G., Klöss, S.
Phosphate Transport in the Proximal Convolution of the Rat Kidney. I. Tubular Heterogeneity, Effect of Parathyroid Hormone in Acute and Chronic Parathyroidectomized Animals and Effect of Phosphate Diet 372:269
Ullrich, K.J., Rumrich, G., Klöss, S.
Phosphate Transport in the Proximal Convolution of the Rat Kidney. II. Effect of Extracellular Ca^{2+} and Application of the Ca^{2+} Ionophore A 23187 in Chronic PTX Animals 375:9
Ullrich, K.J., Rumrich, G., Klöss, S.
Phosphate Transport in the Proximal Convolution of the Rat Kidney. III. Effect of Extracellular and Intracellular pH 377:33
Ullrich, K.J., Rumrich, G., Klöss, S.
Active Sulfate Reabsorption in the Proximal Convolution of the Rat Kidney: Na^+ and HCO_3^- Dependence 383:159
Ullrich, K.J., Rumrich, G., Klöss, S.
Bidirectional Active Transport of Thiosulfate in the Proximal Convolution of the Rat Kidney 387:127
Umesaki, Y., Yajima, T., Tohyama, K., Mutai, M.
Characterization of Acetate Uptake by the Colonic Epithelial Cells of the Rat 388:205
Umesaki, Y., Yajima, T., Yokokura, T., Mutai, M.
Effect of Organic Acid Absorption on Bicarbonate Transport in Rat Colon 379:43
Unger, V., see Kaczmarczyk, G., et al. 390:44
Urakawa, N., see Ozaki, H. 389:189
Urakawa, N., see Ozaki, H. 390:107
Urbanics, R., Leniger-Follert, E., Lübbers, D.W.
Time Course of Changes of Extracellular H^+ and K^+ Activities During and After Direct Electrical Stimulation of the Brain Cortex 378:47

Vasquez, J., Purves, M.J.
The Cholinergic Pathway to Cerebral Blood Vessels. I. Morphological Studies 379:157
Vasquez, J.V., see Pinard, E., et al. 379:165
Vasseur, M., Ferard, G., Pousse, A.
Rat Intestinal Brush Border Enzymes Release by Deoxychlorate in vivo 373:133
Vasseur, M., Ferard, G., Pousse, A.
Do Low Doses of Deoxycholate Modify the Release of Rat Jejunal Brush Border Hydrolases? 379:297
Vassort, G., see Roulet, M.-J., et al. 379:259
Vaughn, L.K., Veale, W.L., Cooper, K.E.
Impaired Thermoregulation in Pregnant Rabbits at Term 378:185

Vaupel, P., Manz, R., Müller-Klieser, W.
Respiratory Gas Exchange in the Rat Spleen in situ and Intrasplenic Oxyhemoglobin Saturation 379:109
Vaupel, P., see Grote, J., et al. 372:37
Veale, W.L., see Vaughn, L.K., et al. 378:185
Veenstra, J., see Oeseburg, B., et al. 386:95
Ventura-Clapier, R., see Roulet, M.-J., et al. 379:259
Vereecke, J., Isenberg, G., Carmeliet, E.
K Efflux Through Inward Rectifying K Channells in Voltage Clamped Purkinje Fibers 384:207
Vereecke, J.S., see Bogaert, P.-P. van, et al. 375:45
Versprille, A., see Zwart, A., et al. 375:213
Verstappen, F.T.J., Bernards, J.A., Kreuzer, F.
Effects of Pulmonary Gas Embolism of Circulation and Respiration in the Dog. V. Effect of Changing Breathing Gas Composition on Pulmonary Gas Embolization 374:125
Verstappen, F.T.J., Bernards, J.A., Kreuzer, F.
Effects of Pulmonary Gas Embolism on Circulation and Respiration in the Dog. VI. Influence of Body Position on the Effects of Pulmonary Gas Embolism 374:131
Vial, J.L., see Pousse, A., et al. 376:259
Vibert, J.F., Caille, D.
Estimation of the Number of Normal Subpopulations in a Heterogeneous Sample and of Their Parameters. A Recurrent Method Applied to Neurobiology 373:283
Vibert, J.F., see Hughes, A., et al. 388:239
Vigneault, N., see Brunette, M.G., et al. 373:229
Vigneault, N., see Giasson, S.D., et al. 371:33
Vihko, V., Salminen, A., Rantamäki, J.
Acid Hydrolase Activity in Red and White Skeletal Muscle of Mice During a Two-Week Period Following Exhausting Exercise 378:99
Vihko, V., see Salminen, A. 389:17
Villamil, M.F., Amorena, C., Ponce, J., Müller, A., Taquini, A.C.
Acute Saline Expansion Lowers Blood Pressure of Early DOCA-Salt Hypertensive Rats 390:260
Villa-Moruzzi, E., Locci-Cubeddu, T., Bergamini, E.
Effects of Adrenaline Administration on the Activity of Glycogen Metabolizing Enzymes in Different Muscle Types 379:301
Vincent, D., see Bauduin, H., et al. 372:69
Vincent, J.-D., see Arnauld, E., et al. 371:193
Vincent, M., see Grandjean, B., et al. 373:161
Vinogradova, O.L., see Berdina, N.A., et al. 378:149
Vinogradova, O.L., see Kotz, Y.M., et al. 373:211
Vishnevetskaya, M.A., see Berdina, N.A., et al. 378:149
Vogel, S., see Humpeler, E. 372:287
Völkl, H., Silbernagl, S., Deetjen, P.
Kinetics of l-Proline Reabsorption in Rat Kidney Studied by Continuous Microperfusion 382:115
Völkl, H., Silbernagl, S.
Molecular Specificity of Tubular Reabsorption of l-Proline. A Microperfusion Study in Rat Kidney 387:253
Voorhorst, R., see Molenaar, J., et al. 383:173
Voslar, M., see Moll, W., et al. 377:225
Vrbaški, M., see Petrović, V.M., et al. 377:181
Vrbová, G., see Pette, D., et al. 378:251
Vries, W.R. de, see Luijendijk, S.C.M., et al. 384:267
Vučo, J., see Anastasjević, R. 377:255
Vyskočil, F., Gutmann, E.
Anabolic Effect of Testosterone on the Levator Ani Muscle of the Rat 371:3
Vyskočil, F., Syrový, I., Prusik, Z.
Induction of Extrajunctional Acetylcholine Sensitivity of Rat EDL Muscle by Peptide Component of Peripheral Nerve 390:265
Vyskočil, F., see Dlouhá, H., et al. 380:101

Wahl, M., Kuschinsky, W.
Unimportance of Perivascular H^+ and K^+ Activities for the Adjustment of Pial Arterial Diameter During Changes of Arterial Blood Pressure in Cats 382:203
Wahl, M., see Duling, B.R., et al. 383:29
Wahl, M., see Kuschinsky, W. 382:81
Wahl, M., see Schneider, W., et al. 372:103
Wahl, M., see Schrader, J., et al. 387:245
Wakui, M., Nishiyama, A.
ACh-Evoked Complex Membrane Potential Changes in Mouse Submaxillary Gland Acini. A Study Employing Channel Blockers and Atropine 386:251
Wakui, M., Nishiyama, A.
Ionic Dependence of Acetylcholine Equilibrium Potential of Acinar Cells in Mouse Submaxillary Gland 386:261
Walesby, N.J., see Johnston, I.A., et al. 371:257
Walker, C.H.M., see Thompson, J., et al. 380:197
Walker, J.L., see Spitzer, K.W. 382:281
Walle, A., see Rimmel, C., et al. 376:105
Walle, C.M. van de, see Putney, J.W. Jr., et al. 385:131
Wallenburg, H.C.S., see Moll, W., et al. 377:225
Wallis, D.I., North, R.A.
Synaptic Inputt to Cells of the Rabbit Superior Cervical Ganglion 374:145
Walsh, J.V., Jr., Singer, J.J.
Voltage Clamp of Single Freshly Dissociated Smooth Muscle Cells: Current-Voltage Relationships for Three Currents 390:207
Walter, G., see Bünger, R., et al. 380:259
Walter, J., see Fejes-Tóth, G., et al. 376:67
Wand, P., see Pompeiano, O. 385:263
Warashina, A., see Sakaguchi, T., et al. 380:283
Warberg, J., Parker, C.R., Jr., Oliver, C., Barnea, A., Porter, J.C.
Ion-Induced Release of LHRH, TRH and α-MSH from Hypothalamic Synaptosomes and Its Inhibition by Vinblastine 385:79
Ward, S.A., see Kiwull-Schöne, H., et al. 390:63
Wareham, A.C.
Effect of Denervation and Ouabain on the Response of the Resting Membrane Potential of Rat Skeletal Muscle to Potassium 373:225
Wareham, A.C., see Oliver, J.R. 380:111
Warelas, J., see Dengler, R., et al. 380:145
Warner, R.R.
Compartmental Analysis of Na Efflux Across Ileum Mucosal Membrane 378:155
Webber, D.E., Nouri, M., Bell, F.R.
A Study of the Effects of Meal Temperature on Gastric Function 384:65
Weber, C., see Petrofsky, J.S., et al. 387:33
Weber, P.C., see Moore, L.C., et al. 387:39
Weber, P.C., see Schnermann, J., et al. 379:269
Wehler, A., see Grünewald-Zuberbier, E., et al. 389:55
Weidemann, G., see Boldt, M., et al. 385:167
Weigelt, H., Seidl, E., Acker, H., Lübbers, D.W.
Distribution of Oxygen Partial Pressure in the Carotid Body Region and in the Carotid Body (Rabbit) 388:137
Weinberg, J.M., see Humes, H.D. 388:217
Weiner, I.M., see Roch-Ramel, F., et al. 383:203
Weingarten, J.P., Rollema, H.S., Bauer, C., Scheid, P.
Effects of Inositol Hexaphosphate on the Bohr Effect Induced by CO_2 and Fixed Acids in Chicken Hemoglobin 377:135
Weinman, E.J., see Knight, T.F., et al. 373:139
Weiskopf, R.B., see Riordan, K.K., et al. 390:99
Weiss, Ch., see Eggert, P. 383:223
Weiss, Ch., see Eggert, P., et al. 382:63
Weiss, H.R., see Kleinert, H.D., et al. 383:105
Weiss, T.F., Altmann, D.W., Mulroy, M.J.
Endolymphatic and Intracellular Resting Potential in the Alligator Lizard Cochlea 373:77
Wekerle, H., see Hohlfeld, R., et al. 390:156
Well, P.M.A. van, see Thijssen, J.M., et al. 373:199
Welsch, J., see Mason, J., et al. 380:233
Wely, F.K. van, see Spaan, J.A.E., et al. 384:241
Wennergren, G., Öberg, B.
Cardiovascular Effects Elicited from the Ventral Surface of Medulla Oblongata in the Cat 387:189

Wenzel, D., Thoden, U., Frank, A.
Forelimb Reflexes Modulated by Tonic Neck Positions in Cats 374:107
Werner, R., Wünnenberg, W.
Effect of the Adrenocorticostatic Agent, Metopirone, on Thermoregulatory Heat Production in the European Hedgehog 385:25
Werner, U., see Konrads, A., et al. 377:81
Weskamp, P., see Behn, C., et al. 372:259
Weskamp, P., see Fromm, M., et al. 384:69
Westenfelder, C., Birch, F.M., Baranowski, R.L., Wheeler, C., Earnest, W.R., Kurtzman, N.A.
Effect of Na-K-ATPase Inhibition on Hydrogen Ion and Potassium Secretion 386:161
Westenfelder, C., see Arruda, J.A.L., et al. 376:193
Wetterer, E., see Bauer, R.D., et al. 380:221
Wettwer, E., see Fink, R. 374:289
Wever, R.A.
Influence of Physical Workload on Freerunning Circadian Rhythms of Man 381:119
Whalen, R.C., see Pette, D., et al. 378:251
Wheeler, C., see Westenfelder, C., et al. 386:161
Whittembury, G., see González, E., et al. 383:165
Wichmann, J., Löser, R., Diemer, H.P., Lochner, W.
Pharmacological Alterations of Coronary Collateral Circulation; Implication to the Steal-Phenomenon 373:219
Wicke, H.J., see Kirsch, K.A., et al. 387:239
Widdicombe, J.H., Brading, A.F.
A Possible Role of Linked Na and Cl Movement in Active Cl Uptake in Smooth Muscle 386:35
Wiederholt, M., Danisevskis, P., Hansen, L.L., Lichey, H.-J., Platsch, K.D.
The Effects of Extracellular Potassium, Ouabain, and Prostaglandins on Intracellular Potassium Activity in Sheep Cardiac Purkinje Fibers 388:169
Wiederholt, M., see Fischer, F.H., et al. 373:179
Wiederholt, M., see Hansen, L.L., et al. 389:121
Wietzerbin, J., see Goudeau, H., et al. 379:71
Wilke, H., see Seitz, H.J., et al. 389:115
Wilkinson, M.
The Sensitivity of Pineal Gland β-Receptors Appears to be Dependent upon Calcium Ions 373:209
Will, G., see Gaehtgens, P., et al. 390:278
Will, G., see Gaehtgens, P., et al. 390:283
Williams, L., see Tasaka, K., et al. 379:303
Willis, W.D., Jr., see Stanojević, M., et al. 385:95
Wilson, D.R., see Sonnenberg, H. 390:131
Wilson, K., see Schoenenberger, G.A., et al. 376:119
Wilson, P.W., Lawson, D.E.M.
Calcium Binding Activity by Chick Intestinal Brush-Border Membrane Vesicles 389:69
Winder, W.W., Garhart, S.J., Premachandra, B.N.
Peripheral Markers of Thyroid Status Unaffected by Endurance Training in Rats 389:195
Windhorst, U., Meyer-Lohmann, J.
The Influence of Extrafusal Muscle Activity on Discharge Patterns of Primary Muscle Spindle Endings 372:131
Wioland, N., see Bonaventure, N., et al. 385:51
Wisser, J., Horster, M.
In vitro Perfused, Non-Isolated Small Intestine: Ontogeny of Transmural Hydraulic Permeability 373:205
Withrington, P.G., Richardson, P.D.I., Davis, B.N.
Erythrocyte Uptake by the Dog's Spleen During Splenic Venous Pressure Elevation 388:37
Withrington, P.G., see Davies, B.N., et al. 377:87
Withrington, P.G., see Richardson, P.D.I. 378:135
Wodick, R., Lübbers, D.W., Grossman, U., Skolosinska, K., Piontek, E.
Determination of the Mean Flow Velocity of Blood in Tissue by Application of Locally Generated Hydrogen as an Indicator 374:91
Wójcik, G., see Lupa, K., et al. 381:201
Wojtaszek, B., see Sławiński, J.A., et al. 374:15
Wolfenson, D., Frei, Y.F., Snapir, N., Berman, A.
Heat Stress Effects on Capillary Blood Flow and its Redistribution in the Laying Hen 390:86
Wolff, C.B., see Metias, E.F., et al. 389:243
Wolgast, M., see Hermansson, K., et al. 389:85
Wong, E., see Davidson, N., et al. 379:149
Wong, N.L.M., see Quamme, G.A., et al. 377:95
Wong, N.L.M., see Quamme, G.A., et al. 386:59
Wong, P.Y.D., Tsang, A.Y.F., Lee, W.M.
Effect of Intraluminal Ion Concentrations on the Secretion of the Rat Cauda Epididymidis in vivo 387:61
Wood, J.D., Mayer, C.J.
Intracellular Study of Electrical Activity of Auerbach's Plexus in Guinea-Pig Small Intestine 374:265
Wright, F.S., see Persson, A.E.G., et al. 381:99
Wu, K.M., see Lin, M.T., et al. 377:245
Wündsch, L., see Trappi, R., et al. 372:165
Wünnenberg, W., see Werner, R. 385:25
Wurster, R.D., see Krönert, H., et al. 388:17
Wójcik, G., see Lupa, K., et al. 381:201

Yagi, N., Matsubara, I.
Equatorial X-Ray Reflections from Contracting Muscle after an Applied Stretch 372:113
Yahata, T., see Kuroshima, A., et al. 381:113
Yajima, T., see Umesaki, Y., et al. 379:43
Yajima, T., see Umesaki, Y., et al. 388:205
Yamamoto, K., see Yasuda, M., et al. 385:111
Yamamoto, T., Herzig, J.W.
Series Elastic Properties of Skinned Muscle Fibres in Contraction and Rigor 373:21
Yamamoto, T., see Herzig, J.W., et al. 389:97
Yanagihara, K., Irisawa, H.
Inward Current Activated During Hyperpolarization in the Rabbit Sinoatrial Node Cell 385:11
Yanagihara, K., Irisawa, H.
Potassium Current During the Pacemaker Depolarization in Rabbit Sinoatrial Node Cell 388:255
Yanagihara, K., see Noma, A., et al. 372:43
Yang, Q.-F., see Osterrieder, W., et al. 389:283
Yarimizu, S., see Moore, L.C., et al. 387:39
Yarimizu, S., see Schnermann, J., et al. 379:269
Yasuda, M., Fujita, T., Higashio, T., Okahara, T., Abe, Y., Yamamoto, K.
Effects of 4 Pentenoic Acid and Furosemide on Renal Functions and Renal Uptake of Individual Free Fatty Acids 385:111
Yasunaga, K., see Nosaka, S., et al. 379:281
Yates, M.S., Hiley, C.R.
Distribution of Cardiac Output in Different Models of Hypertension in the Conscious Rat 379:219
Yokokura, T., see Umesaki, Y., et al. 379:43
Yokota, H., see Frans, A., et al. 380:35
Young, J.A., see Coroneo, M.T., et al. 381:223
Young, J.A., see Denniss, A.R. 376:73
Young, J.A., see Rubin, A.M., et al. 371:155

Zachar, J., see Uhrik, B., et al. 387:281
Zacny, E., see Sławiński, J.A., et al. 374:15
Zalm, J.M. Van der, see Kroese, A.B.A., et al., 375:167
Zandberg, P., Palkovits, M., Jong, W. de
The Area Postrema and Control of Arterial Blood Pressure; Absence of Hypertension after Excision of the Area Postrema in Rats 372:169
Zeiske, W., Driessche, W. Van
Apical K^+ Channels in Frog Skin (*Rana temporaria*): Cation Adsorption and Voltage Influence Gating Kinetics 390:22
Zelcer, E.
Slow Wave Activity in Rabbit Jejunum 381:185

Zelis, R., see Flaim, S.F., et al. 385:203
Ziegigänsberger, W., see Carstens, E., et al. 379:143
Zijlstra, W.G., see Brunsting, J.R., et al. 381:293
Zijlstra, W.G., see Landsman, M.L.J., et al. 373:273
Zijlstra, W.G., see Landsman, M.L.J., et al. 379:59
Zijlstra, W.G., see Rispens, P., et al. 386:97
Zijlstra, W.G., see Zweens, J., et al. 376:131
Zijlstra, W.G., see Zweens, J., et al. 385:71
Zimmer, H.-G., Gerlach, E.
Stimulation of Myocardial Adenine Nucleotide Biosynthesis by Pentoses and Pentitols 376:223
Zimmerman, A.N.E., see Boink, A.B.T.J., et al. 385:105
Zimmermann, M., see Carstens, E., et al. 379:143
Zite-Ferenczy, F., Rüdel, R.
A Diffractometer Using a Lateral Effect Photodiode for the Rapid Determination of Sarcomere Length Changes in Cross-Striated Muscle 374:97
Zock, J.P., see Rispens, P., et al. 386:97
Zwart, A., Bogaard, J.M., Jansen, J.R.C., Versprille, A.
A Non-Invasive Determination of Lung Perfusion Compared with the Direct Fick Method 375:213
Zwart, A., see Luijendijk, S.C.M., et al. 384:267
Zweens, J., Frankena, H., Reicher, A., Zijlstra, W.G.
Infrared-Spectrometric Determination of D_2O in Biological Fluids: Reappraisal of the Method and Application to the Measurement of Total Body Water and Daily Water Turnover in the Dog 385:71
Zweens, J., Frankena, H., Zijlstra, W.G.
The Effect of Pentobarbital Anaesthesia Upon the Extracellular Fluid Volume in the Dog, Studied by Continuous Infusion and Single Injection Methods 376:131

Pflügers Archiv
European Journal of Physiology
© Springer-Verlag 1981

Pflügers Arch (1981) 390:333–359

Cumulative Subject Index of Volumes 371 (1977)–390 (1980)

A

A 23187 388:217
Abdominal vagal efferents 387:55
Absorption coefficient 372:279
Absorption of NH^{4+} intestinal 379:237
AC impedance, gallbladder 377:125
A-cells 386:21
Acetate 379:43
– uptake, colon 388:205
Acetazolamide 373:113; 377:33; 378:71; 379:49; 389:271
Acetylcholine 372:53, 115; 373:9; 376:159; 377:185; 378:149; 379:19; 380:101; 381:223; 382:43; 383:75, 245, 257; 386:101; 387:197, 207, 217; 389:283
– application to the S-A node 389:283
– equilibrium potential 386:261
– – – (E_{ACh}) 386:251
– -evoked membrane potential 376:159
– -induced hyperpolarization 380:71
– – potassium current fluctuations 381:255
– – relaxation current 387:83
–, parotic secretion 372:231
– receptor 390:156
– – channels 375:219
– – synthesis 385:37
– receptors 379:29; 381:255
– release 377:57, 117
– –, divalent cations 377:57
– –, spontaneous 386:29
– releasing drug: 4-aminopyridine 379:181
– sensitivity 377:147; 390:265
Acetylene rebreathing technique 390:179
ACh action 386:251
ACh activated K current 386:101
ACh-activated potassium channel 389:283
ACh-evoked complex membrane potential 386:251
ACh-induced K-channel 381:263
ACh-induced potassium current 377:193
ACh-operated channels 377:193
ACh-supersensitivity 379:89
Acid-base balance 376:251; 384:143; 386:135; 388:79, 129
– – balanced 374:249
– – changes 376:237
– – equilibrium 380:105; 390:99
– – metabolism 377:229
– – regulation 375:257
– – regulation, Bohr effect 377:135
– – status of arterial blood 384:93
– base-physiology 376:193
– hydrolase activity 378:99
– microclimate, jejunum 385:137
– phosphatase 379:203
– protease 389:17
– proteolytic capacity 389:17
– secretion 386:53
Acidic amino acids 375:53
Acidification 374:219; 375:39
– and internal pCa 374:31
– defect 381:137
–, effect on the renin content 375:105
–, renal 375:39
Acidosis 376:55; 378:47; 379:95; 380:35
– on cardiac contractility 380:41
–, renal tubular 377:229
–, respiratory 378:85; 380:105
Acinar cell 386:251, 261
– cells, lacrimal 377:185
– –, pancreas 372:69
– –, pancreatic 386:153
Acoustic disturbances 382:279
– stimuli 380:7
ACTH at 384:183
Actin heavy meromysin 386:207
Action potential 374:145; 377:155; 380:111; 386:21; 387:197; 389:37
– – (APs) 377:167
– –, atrium 372:121
– – duration 371:51; 377:155; 379:137
– – durations 374:79
– – in the olfactory nerve 381:209
– –, nerve 372:17
– –, papillary muscle 372:285
– –, Purkinje fibres 371:51, 61
– – smooth muscle 380:165
– potentials 376:105
Activation 381:71
– curve 371:77; 381:271
– heat 379:173
– of contraction 374:167; 379:117
– of the contractile system 382:155
Active Cl uptake 386:35
– contraction 371:245
– extrusion mechanism 390:202
– K^+ pump 383:99
– K^+ transport 378:37
– Na+K movements 371:201
– Na-K-transport 390:224
– shortening in cardiac muscle 385:273
– sodium transport 385:181
– state 379:251
– stiffness 374:135
– transepithelial Na^+ transport 371:87, 99
– transport 374:255; 376:245; 377:217; 390:30
– – of urea 390:299
– vasodilatation 387:161
Activity-dependent changes in conduction velocity 381:209
Actomyosin ATPase 374:277
Acute phase reaction 389:175
– renal failure 372:251, 275; 373:69; 379:11; 380:233; 381:159
– saline expansion 390:260
– uremia 372:275
Adaption 386:141
–, ATPases 371:257
– -growth 372:91
–, intestinal 372:91
– –, ATPase 372:83
– of red cells 373:39
Adaptations to high intensity training 375:141
Adenine nucleotide 374:193
– – biosynthesis 376:223
Adenosine 374:73; 375:183; 380:19; 383:35
– content in cerebral cortex 387:245
– deaminase inhibitors 383:35
–, in renal tissue 371:45
– monophosphate, cyclic 373:99
– 3′,5′-monophosphate 383:257
–, myocardial effects 372:29
–, radioimmunoassay 378:167
– response on pial arteries 386:187
– triphosphatase 375:245
– triphosphate (ATP) 382:133
– -5′-triphosphate (ATP) 389:219, 227
Adenyl cyclase activity 374:219
– – inhibitor 374:31
Adenylate cyclase 372:29; 383:215; 389:21; 390:10, 145
– – from rat heart 389:29
– – -cyclic AMP system 390:145
ADH 373:99; 374:229
ADH, renal transport 383:215
ADH-kidney 378:213
Adipocyte sensitivity to lipolytic agents 384:183
Adipocytes 385:85
Adipose tissue 379:187; 384:159; 385:193; 388:89; 390:169, 256
– – blood flow 376:41
Adrenal activity 384:171
Adrenalectomized HSI dog 381:143
– patients 383:41
– rabbits 384:203
– rats 386:11

Adrenalectomy 378:71; 379:49, 187; 382:123; 384:183; 385:29, 189; 390:17
– (rat) 385:91
–, water permeability 373:105
Adrenaline 377:155, 185; 378:149; 379:301; 388:37
–, glycogenolytic effect 373:1
–, (l-nor-) 373:189
Adrenergic and cholinergic receptors 387:161
– blocking agents 377:185
– control of bicarbonate absorption 388:159
– functions, α and β 372:115
– innervation 383:41
– nerve terminals 372:63
– neurone 377:43
– receptor blockade 379:223; 380:211
– receptors (α) 373:99; 377:65
– stimuli 377:87
Adrenoceptor responses 383:185
Adrenocortical hormones 373:105
Adrenocorticostatic agent 385:25
Adrenomimetic substances 379:29
Adult hemoglobin 389:227
Aerobic metabolism 390:164
Afferent activity 372:139
– cardiac sympathetic nerve fibers 372:53
– nerve activity 375:167
– oncotic pressure (π_a) 385:253
Afterdischarges 376:15
After-hyperpolarization 374:145; 386:21
Afterload 372:23; 377:119
Agamid lizards 377:189
Age, influence on Ca^{2+} metabolism 375:233
–, sex difference, heart rate 380:189
Agglutination kinetics 386:245
β-agonist isoproterenol 373:209
Air temperature, variations 373:259
Airway resistance 371:285
– smooth muscle 390:175
Airways occlusion control 385:259
Albumin 372:77
– loading 373:249
– transfer, placenta 371:251
Alcian Blue staining 388:21
Aldosterone 371:87; 373:105; 378:71; 383:151; 385:91, 181
– in vitro 384:203
– on epithelial leakiness 385:29
Alkali metal ions 379:157
Alkaline Bohr effect 376:169
– phosphatase 380:47; 384:149
– – (AP) 373:133
Alkalosis 374:67; 380:35
Alligator lizard 373:77
Alloperfused dog kidney 382:91, 99
Allosteric effectors 377:135
Alpha adrenergic blocker 388:159
– – control 390:262
– – coronary control 372:187
– – mechanism 379:223
– – receptors 372:231
– -bungarotoxin (α-BGT) 385:37
– -glycerophosphate dehydrogenase 389:195
– -melanocyte stimulating hormone (α-MSH) 385:79
– -methyl-d-glucoside 384:279
– -methylglucoside 384:279
Alphaxalone 383:249
Altitude 374:285; 384:109
– exposure 380:65
Alveolar CO_2 fractional concentration (F_{Aco_2}) 374:131
– gas 371:227
– P_{co_2} 389:243; 390:56
– PCO_2 381:1
– plateau 384:267
Amacrine cells 385:51
Ambient temperature 377:51; 386:173; 389:171
– temperatures 379:165
Amblyopia 377:201
Amide transport 384:155
Amiloride 371:99; 374:235; 378:71, 161; 379:49; 383:151; 389:263
– block of Na^+ fluxes 385:243
– -sensitive Na^+-pathway 378:71
Amino acid 379:149
– – -evoked membrane potential 386:153
– – reabsorption, renal 382:115
– – uptake 376:245
Amino acids 375:53; 377:217
– – (GABA, glycine, taurine) 385:51
Aminoaciduria 382:109
α-aminoisobutyric acid (A.I.B.) 377:217
2-aminoisobutyric acid (=AIB) 376:245
Amino-oxyacetic acid 388:177
4-aminopyridine 374:289; 379:181
Aminotic fluid 384:9
Ammonia and glucose productions 379:95
– excretion 377:229
– vapour 386:231
Ammoniagenesis 379:95
Ammoniumchloride 375:45; 377:229
AMP 372:69
3',5'-AMP 379:197
Amperometric detection of urate 383:203
Amphibian urinary bladder 371:87
Amphiuma 389:121
Amphotericin B 381:137; 383:131
Amplitude of inhibitory current 371:167
Ampullar 384:193
Ampullary nerves 372:139
Amygdala 375:31; 376:177
α-amylase 375:245
Amylase release 384:287
– secretion 372:231
Anabolic effect of testosterone 371:3
Anaerobic glycolysis 377:1; 390:164
– work 389:257
Anaesthesia 376:131, 177; 378:71, 127; 384:93, 135
–, influence on lymph 371:25
–, renal function 373:139
Anaesthetics 383:249
–, local 379:137
Androgens 371:87
Angiometer 377:177
– compensation 386:93
Angiotensin 372:169; 375:105; 378:189
– analogues 380:13; 381:83
– antagonist 382:217
– II 371:245; 373:167; 374:199; 381:83; 387:1; 388:211
– II and III 380:13
– II antagonist 374:199
– receptors 380:13; 382:269
– system, brain 373:15
– tachyphylaxis 380:13
Angiotensinogenese activity 377:65
Anion binding sites 375:87
– dependence of the contraction 379:121
– -osmotic hypothesis for exocytosis 388:249
Anions, foreign 381:63
– permeation 381:231
–, replacement 372:121
Anomalous rectification 374:79
Anoxia 372:221; 386:39
–, K^+ concentration changes 372:207
Anoxic region 372:221
Anterior byssus retractor muscle 383:257
– hypothalamus 373:59; 389:297
– –, stimulation 378:149
Anticholinesterases 380:145
Antidiuresis 374:229; 376:67; 390:152
Antidiuretic hormone 373:99, 105; 376:67; 377:81; 378:213
– principle in birds 387:91
Antidromic activation 383:91
Anti-GBM-nephritis 375:269
Anti-GBM-serum 375:269
Antimony microelectrode 386:239
Antimony microelectrodes 375:39
Antimycin A 372:77
Anti-natriuretic action of aldosterone 385:91
Antipyretics 379:165
Antisera against rat urinary and testicular hyaluronidase 390:152
Aortic blood flow 376:177
– nerves 379:81
– strips 389:189
– vs. carotid baroreceptors 383:47
Apical and basolateral membrane 385:181
– K^+ channels 390:22
– membrane potential 379:71
Applied electric potential gradients 390:94
Aprotinin 389:91
Arachidonic acid 374:15
Archistriatum 375:31
Area S 378:231
– postrema 372:169
Arginine metabolism 372:275
– vasopressin 371:193; 373:167; 387:79
– – concentration 383:241
– vasotocin 387:91
– vasotocin (AVT) 387:99
Argon 371:227
Arrhenius plot 388:205
Arterial alveolar PCO_2 difference 390:63
– blood flow, hepatic 386:77
– – gases 376:209
– – pressure 372:169; 373:161; 382:203; 384:261
– chemoreceptor 379:53
– chemoreceptors in man 389:243
– elasticity 380:221
– hematocrit 376:7
– Pa_{co_2} 384:143
– pCO_2 381:241
– pH 386:95
– P_{o_2} 375:1
– pressure 378:189
– pulse rhythmicity 377:109
– smooth muscle 381:63; 386:85
– stress-strain relationship 380:221
– vascular smooth muscle 378:111
– wall viscosity 380:221; 390:113

Arterio-alveolar CO_2 pressure difference (a-A) D_{CO_2} 380:35
Arteriolar dimensions 375:153
– flow resistance 375:153
– resistance 389:85
Arterioles 383:29
Arteriovenous anastomoses 375:17; 376:87; 378:55; 388:17
– shunt 371:175; 385:203
Artificial phasic inflation 379:53
Artificially ventilated dogs 380:35
Arylsulphatase 378:99
Asthma, bronchial 372:1
Asymmetrical displacement currents 375:75
Asymmetry current 375:75; 390:230
Atheroma 387:73
ATP 377:43; 387:115; 390:5
ATP, (rigor solution) 373:21
ATPase 375:245; 386:207
– activity 382:155
– – in rapidly activated skinned muscle fibres 387:167
–, actomyosin 374:277
– -cecum mucosa 372:83
–, erythrocytes 371:263
– method 385:223
ATPases, fish myofibrillar 371:257
ATPMg 374:219
ATPNa_2 374:219
ATP-salt 390:198
Atrial contraction 388:193
– coronary blood flow 388:193
– distension 390:44
– fibres 377:
– membrane potential 380:71; 383:75
– muscle 377:167
– natriuresis 373:49; 389:9; 390:125
– pressure 373:49; 381:143
– trabeculae 372:121
Atrio-ventricular node 371:135
Atrium 372:53
Atrophy 379:89; 385:147
Atropine 377:185; 378:149; 379:29, 125; 380:101; 381:75, 293; 384:1; 386:251; 387:197; 390:262
Auditory neurones, spontaneous and evoked activity 380:7
– stimulation 383:233
Augmented breath 372:1
Autoimmune myasthenia gravis 390:156
Autolysis 389:17
Automatic continuous recording 378:107
Automation 381:11
Autonomic blockade 384:1; 390:262
– influence on muscle 378:149
– nervous control of the heart 384:17
– nervous system 374:265; 375:17, 119; 381:75; 382:269
– temperature regulation 384:253
– thermoregulation 374:47
Autonomous rhythm 381:119
Autoregulation 375:261; 379:81; 380:115; 382:99
– of RBF 381:165
– of superficial nephron function 382:99
Avian ADH 387:99
– erythrocytes 390:278
– osmoregulation 378:213; 387:1, 91
– red cell 390:283
– thermoregulation 374:47; 379:291
AV-shunt vessels 375:153
Awake cats 378:231
– state (AW) 388:149
Axon 378:243

B

Ba^{2+} on K-current 385:11
Baboon 374:105
Background current 387:207
Background K current 383:143
Barbiturate, thiopental 372:285
Barbiturates 376:131
Barium 374:289
– effect 378:111
– ion 388:255
Barnacle fibers 374:31, 219
Barodenervated cat 386:193
Baroreceptor input 384:261
Baroreceptors 371:271; 376:185; 387:189
–, renal 383:233
– response curves 383:47
Baroreflex 383:79,
Basal ganglia 389:1
– -lateral plasma membrane vesicles 388:11
– – plasma membranes 378:87
– sodium intake 382:73
Base-excess correction coefficient 390:99
Basic low molecular weight protein 390:211
Basilar artery 390:296
– papilla 373:77
Basolateral membrane 376:245; 384:279; 385:181; 390:202
– – potential of the distal tubule 389:121
– membranes 374:235
Behavioural and autonomic temperature regulation 384:253
Behaviour, psychomotor 376:177
Behavioural thermoregulation 374:47; 387:183
Benzocaine 376:105; 387:47; 390:230
Benzolamide 374:219; 375:39; 386:239; 387:69; 388:211
Bereitschaftspotential 381:39
Beta adrenergic mechanism 379:223
– -adrenergic control 390:262
– – receptors 372:231
– -1-adrenoreceptors 387:107
– -endorphin induced hypothermia 382:87
– -glucuronidase 389:17
– -guanidinopropionic acid 384:123
– -receptor 390:10
$Beta_2$-adrenoceptor 390:17
Between-breath changes, BBC 369:243
Beveled microelectrodes 380:91
Bevelling extremly fine microelectrodes and micropipettes 381:287
Bicarbonate 377:229; 384:143; 388:129
– absorption 388:159
– alkalosis 388:79
– ATPase 374:219
– -free perfusates 379:49
– leak 386:239
–, on membrane potential 371:179
– permeability 376:251
– reabsorption 376:193; 389:271
– transport 379:43; 385:143
Bicuculline 382:81
– -induced seizure 387:245
Bicycle ergometer 380:205; 381:119
Bicycle ergometry work 376:35
Bidirectional active transport of thiosulfate 387:127
Bifurcations, effect on blood flow 380:115
Bilateral carotid occlusion 383:233
– cerebellar output 380:79
– ureteral ligation 381:165
Bilayer couple hypothesis 372:259
Binary diffusion 371:227
Biogenic amines 383:257
Biological impedance analysis 390:290
– membranes 375:219
Biomechanics of veins 384:177
Biopterin 375:9
Biosynthesis of mitochondrial protein 377:161
Bird osmoregulation 378:161; 379:229, 237
Block, Ca channel, heart 385:175
– of Na channels 376:105; 387:47
Blockage of potassium conductance 374:289
5-blocking agent 383:257
Blood acid-base status 384:93
– -body fluid barriers 384:9
– -brain barrier 378:189; 386:71
– cells 390:278
– -CSF barrier 384:9
– distribution 374:115
– flow 372:109; 374:105; 375:17; 379:295; 381:25, 151; 383:105; 385:193, 203; 386:277; 390:86
– – autoregulation 382:91
– –, cerebral 372:103; 378:189
– –, coronary 382:57
– –, cutaneous 377:143
– – distribution 390:44, 216
– –, hepatic arterial 386:77
– – in superficial glomeruli 382:91
– – in the popliteal artery 382:241
– – measurements 380:115
– –, myocardial 372:187
– –, nasal, lingual 382:255
– – on fatty acid mobilization 390:169
– –, pancreatic 386:277
– –, pial vessels 373:195
– –, regional 372:157
– – regulation 380:19
– –, renal 371:45
– –, – medullary 373:153
– – resistance 387:189
– –, skeletal muscle 373:211
– – spleen 388:37
– – to brown adipose tissue 389:237
– – to organs 376:201
– –, tongue 388:17
– –, – and nose 387:161
– gas analysis 373:269
– gases 375:1; 376:7; 380:35; 388:79, 197
– glucose 386:215
– hydrogen ion concentration 380:35
– lactate removal 380:205
– oxygen dissociation curve 376:7
– – partial pressure 383:29
– O_2 content 376:201
– parameters 371:175
– pCO_2 381:137
– perfused isolated dog kidneys 382:217
– plasma pH 386:97
– pressure 372:95; 373:167; 375:289; 376:185; 377:225; 379:81; 381:19; 382:203; 385:65, 211; 386:187, 193; 390:260, 262

Blood pressure, control of 372:169
– –, effect on cerebral blood flow 378:189
– rheology 390:283
– substitutes (perfluorochemicals) 387:175
– supply 377:225
– -tissue transfer of respiratory and inert gases 375:161
– vessel diameter 378:263
– vessels diameters 385:239
– viscosity 380:1
– volume 373:161; 374:121, 285; 376:185; 379:81
– – distribution 383:189
– – regulation 386:111
Body fat 375:147
– fluid control 386:111
– – volume 387:39
– haematocrit 374:285
– position 374:131
– temperature 373:189
– – fluctuations 386:181
– – regulation 382:249; 387:183
– –, – of 376:41
– – rhythm 386:173
– weight 380:189; 389:171
Bohr effect 376:169, 237; 377:75, 135; 380:35; 389:227
Bombesin 382:263
Bone morphometry 375:233, 239
Boundary layer 375:279
Bovine parathyroid hormone 371:185
Bowman's capsule 389:45
Bradycardia 376:177; 389:181
Bradykinin 372:53, 169; 388:37
Brain 382:87
– cortex 378:47; 387:121
– –, isorenin 373:15
– edema 386:71
– extracellular fluid 375:257
– lesions 384:19
–, membrane potential of silent cells 376:229
– microcirculation 383:29
–, O_2 consumption 372:175
– potential 389:55
– serotonin 377:245
–, sleep inducing peptide 376:119
– slices, in vitro 371:125
– vessels 373:195
Brainstem chemosensitive area 375:289
–, lower, thermosensitivity 379:291
Brattleboro 373:167
Breath, augmented 372:1
Breath-by-breath changes 389:243
Breathing, control of 374:39; 381:1
– frequency 379:53
– pattern 378:65; 390:63
– rate 385:269
Brightness discrimination (jnd) 386:141
–, subjective 372:165
Bronchial asthma 372:1
Brown adipose tissue 384:159; 385:193; 389:237; 390:1
Brush border 373:243; 385:117; 388:11, 227
– – enzymes 371:141; 373:133
– – hydrolases 379:297
– – membrane vesicles 373:243, 390:191
– – vesicles 382:35
– borders 384:149
Buffer system, frog skeletal muscle 371:179
Bufo viridis 390:299
Bulbar respiratory neurones of cats 380:245
Bulbospinal neurones 380:245
– tryptaminergic neurones 377:109
α-Bungarotoxin 377:147; 380:101
Burst discharge 386:1
– parameters 382:1
Bursting cold fibers 386:1
Butyrate 379:43

C

C-cells 386:21
^{14}C-DMO 380:105
C fibres 373:25
Ca-antagonist 388:221
Ca-current 386:21
^{45}Ca efflux 390:256
Ca ionophore 379:37
Ca-Na exchange 375:69
Ca, release from intracellular stores 377:167
^{45}Ca release 388:63
Ca store, cellular 387:17
Ca^+ transport across the rabbit distal nephron segments 390:145
Ca uptake, cellular (aorta) 390:107
Ca^{2+} 377:185; 378:205; 384:287; 387:61
Ca^{2+} activation in frog skinned muscle fibres 389:97
Ca^{2+}-activated force 380:41
Ca^{2+}-activated force of skinned fibers 376:55
Ca^{2+}-activated K-conductance 371:51, 71, 77
Ca^{2+}-activated tension 387:115
Ca^{2+}-activated tension development 375:111
Ca^{2+}-activation 376:55; 382:155
Ca^{2+} activation of K^+ conductance 390:207
Ca^{2+} and frequency of stimulation 380:19
Ca^{2+} and Sr^{2+} activation 386:207
Ca^{2+}-binding factor 374:277
Ca^{2+} control of muscle contraction 381:53
Ca^{2+} dependent atrial slow action potentials 380:19
Ca^{2+} dependent membrane permeability 380:19
Ca^{2+}, extracellular 390:296
Ca^{2+}-free EGTA 387:61
Ca^{2+} free environment 382:133
Ca^{2+}-induced contraction 373:21
Ca^{2+}, internal stores 379:259
Ca^{2+}, intracellular, Purkinje fibres 371:77
Ca^{2+} ionophore A 23187 375:97
Ca^{2+} membrane binding sites 380:19
Ca^{2+}/Sr^{2+} activation 381:53
Ca^{2+} transport 390:145
Ca^{2+} uptake by the sarcoplasmic reticulum 380:29
$^{45}Ca^{2+}$ uptake by dispersed pancreatic islet cells 381:281
Caerulein 376:73; 383:19; 384:63; 385:131
Caesium 390:30
Caffeine 385:37
–, cardiac muscle 373:31
– contractures 384:99
– -induced tension transients 380:29
–, slow action potential 372:285
Calcium 374:135, 249; 375:97; 378:31; 380:181; 381:171, 185; 382:275; 383:123; 384:105, 183, 219; 385:37; 386:147; 389:121; 390:175
– accumulation 385:85
–, acetylcholine release 377:57
– -activated ATPase activity 377:119
– – force development 390:161
– – tension development 375:111
– activation 371:119; 382:165; 390:198
– antagonist, D 600 371:119
– antagonists 373:209
– binding 371:263; 385:85
– – activity 389:69
– – by the red blood cell membrane 379:191
– – of skinned muscle fibres 382:165
–, cardiac muscle 373:31
– channel block 385:175
– -chelator 375:61
– current 390:102, 207
– dependent outward current 389:293
–, dietary 375:239
– efflux 377:167
–, erythrocyte membrane 371:263
–, – shape 372:259
–, external 376:21
– -free perfusion 385:105
–, insulin release 385:217
–, internal stores 381:63
–, intracellular 380:267; 384:183; 386:29
– –, cardiac muscle 377:155
– ionophore 373:43; 388:217
– –, A23187 371:119
– ions 373:209
– –, insect fibrillar muscle 382:155
– –, Purkinje fibres 371:51, 61
– -45 kinetics 375:233, 239
–, membrane bound 373:43
– metabolism 375:233, 239
– microinjection 371:77
–, noradrenaline release 372:63
– paradox 385:105
–, parotid secretion 372:231
–, probe, chlorotetracycline 381:281
–, Purkinje fibres 371:71
– reabsorption 374:153
– –, jejunum 373:249
– –, renal 386:59
–, red cell deformability 373:43
–, synaptic transmission 371:125
–, taurine efflux 372:203
– transport 374:255; 381:217
– turnover 375:233
– uptake, pancreatic islets 378:93
Calmodulin 387:115
Calorigenic actions of noradrenaline and glucagon 381:113
Calorimetry, indirect 382:197
Camera-type diameter gauge 388:261
cAMP 383:245; 390:198
cAMP content, basal 384:183
cAMP dependent protein kinase 390:198
cAMP-dependent protein kinase 374:277
Canine hemoglobin 390:99
– myocardium 372:187
Capacitance 377:125
Capacitive and inductive low frequency impedances 389:105
Capillaries 375:17
Capillarity 386:39

– of skeletal muscle 380:153
Capillary arrangement 375:245
– blood flow 380:115; 390:86, 278
– circulation 390:283
– contractility 371:245
– density 375:153, 245; 380:153; 382:57
– diameter, angiotensin II 371:245
– – in the rat kidney 382:179
– dimensions 374:57
– filtration 378:127
– – coefficient 381:25
– permeability 384:9
– protein escape 378:127
– recruitment 382:57
– red cell velocity 375:153
– reserve 378:9
– resistance 390:94
– supply 375:245
– -to-fibre O_2 diffusion distance 385:223
– to fibre ratio 380:153
– volume 380:115
Capnostat 372:289
Capsaicin 387:183; 389:297; 390:219
– desensitized rat 389:171
– -densensitization 390:219
– -desensitized rats 382:249
Carbachol 385:131; 387:1; 390:17
Carbamate 377:135
Carbamates, linked 378:197
Carbamino CO_2 376:237; 390:99
Carbochromen, coronary dilatation 373:219
Carbohydrate energy 382:197
Carbon clearance 387:175
– dioxide 371:179; 373:269; 374:187; 376:251; 380:105; 390:99
– – excretion 380:197
– – measurement 375:279
– – partial pressure 385:143
– – pressure 376:237; 380:121
– – –, intracerebral 375:25
– – –, sensitivity 381:249
– – tension, in vivo measurement 373:269
– monoxide 383:105
Carbonic acid 386:239
– anhydrase 375:39; 386:239
– – inhibition 387:69
– – inhibitor 388:211
Carbox dioxide pressure, end-tidal 372:289
Carboxyl group of sialic acid 380:171
Carcinosarcoma 372:37
Cardiac action potential 377:155; 380:139
– adenine nucleotide concentrations 376:223
– adenylate cyclase activity 389:29
– adenylate cyclase system 390:10
– adrenoceptors 383:185
– catheterization 373:273
– cells 376:217
– contractility 376:55
– control 384:1
– denervation 381:293; 390:125
– distension 374:119
– fibres, intercellular communication 380:267
– hypertrophy 376:209; 385:155; 390:5
– microcirculation 378:9
– muscle 375:111; 377:119; 380:29; 381:53; 385:273; 386:121; 389:17; 390:237
– – energetics 379:173
– – fragments 379:121
– –, metabolism 373:31
– nerves 390:125
– output 372:157; 375:213; 376:87, 201; 384:109; 385:65, 193; 386:111; 389:237; 390:179
– – calculator 379:59
– –, distribution 372:157; 385:203
– – measurement 385:21
– pacemakers mechanism 385:11
– parasympathetic nerve endings 377:57
– Purkinje fibre 384:189
– Purkinje fibres 371:51, 61, 71, 77; 375:45; 379:137; 380:91; 382:17; 387:197, 207, 217; 388:169; 390:102
– sympathetic fibres 372:53
– troponin inhibitory factor (TNI) 374:277
– troponin-tropomyosin-complex 386:207
– vagal blockade 381:293
– work 380:259
Cardioactive steroids 377:209
Cardioinhibitory fibres 379:281
Cardiomegaly 390:5
Cardiorespiratory adjustments 385:65
– effects of hypothermia 388:79
Cardiovascular hemodynamics 385:203
– reflex response 372:169
– responsiveness, development of 390:262
Carotic loops 372:95
Carotid arteries 387:73
– artery occlusion 386:193
– – pressure (CAP) 385:65
– baroreceptor reflex 383:79
– blood 385:269
– body 374:205, 211; 375:229
– – chemoreceptors 380:53
– – region 388:137
– chemoreceptors 374:39
– chemoreflexes 381:1
– flow 386:193
– loop 373:49; 381:143
– occlusion 379:81; 383:233
– sinus baroreceptors 377:109; 383:47
– – nerves 381:249
– – preparation donorperfused, bilateral 374:39
Carrier-mediated phosphate influx in duodenum 388:227
– – uptake of sugars 384:279
Cat papillary muscle 377:155
Catecholamine 373:1
– turnover, central nervous system 380:127
Catecholaminergic neurons 371:271
Catecholamines 371:271; 372:63; 373:99; 378:135; 383:41; 388:83
–, myocardial effects 372:29
Cathepsin D activity 378:99
Catheter flow meter 372:109
– – meters 386:93
– oxygen electrode 375:1
– -tip densitometer 379:59
– tip oximeter 373:273
Catheterization 387:67
–, aorta, pulmonary artery 376:131
Cation adsorption 390:22
– permeability 390:30
– selectivity of Henle's loop 390:30
Cauda epididymidis 387:61
Caudal spinal cord 381:201
Cebus albifrons 383:203
Cecum 372:91
– mucosa 372:83
Cell calcium 390:256
– electrolyte concentration 390:202
– – concentrations 382:67
– glucose concentration 390:202
– injury 378:99
– membrane 375:45
– – capacitance 377:125
– –, defect in essential hypertension 371:263
– – resistance 371:99
– potential profile necturus urinary bladder 371:87
– shape changes 372:259
– swelling 381:159
– temperature 371:257
– to cell coupling 380:277
– viability 388:217
– volume 383:55
– – regulation 381:159
– water 382:67
Cellular Ca store 387:17
– ^{45}Ca uptake 390:107
– electrolyte condentrations 373:85
– energy production 371:19
– hyperplasia, cecum 372:91
– Na content 389:189; 390:107
Central chemical drive 381:1
– chemoreceptors 374:205, 211
– chemosensitive mechanisms 375:257
– – structures 376:229
– chemosensitivity 378:231; 379:29; 381:241, 249
– nervous system 372:103, 107, 131
– – –, chemosensitivity 378:231
– – –, respiratory chemosensitivity 379:29
– – –, transmitters 379:149
– – –, turnover of catecholamines 380:127
– processing 385:123
– synapses 385:45
– venous pressure 374:115, 119, 121; 379:81; 386:111
– vestibular neurons 385:123
Cerebellar cortex 383:137
– –, taurine efflux 372:203
– fastigial and vermal cortex neurons 385:95
– vermis 381:87
Cerebellectomy 382:51
Cerebellum 372:203; 375:119, 125; 379:149; 380:79; 384:193; 385:95
–, Purkinje cells 371:147
Cerebral arterial strip 374:73
– blood flow 372:103; 378:189; 387:245; 389:1
– circulation 373:195
– cortex, isorenin 373:15
– ischaemia 388:243; 389:1
– metabolism 375:25
– osmoregulation 387:1
– osmosensitivity 387:99
– potentials 381:39
– tissue gas partial pressure 375:25
– venous blood 376:119
Cerebrospinal fluid 376:119
– fluid (csf) 374:101
Cerebrovascular circulation 386:187
– resistance 382:81, 203
– – in ischaemia 388:243

Cervical sympathetic chain 378:189
– vagus nerve 375:119
Cervix uteri 373:145
Cesium 384:207; 390:102
–, flux in Purkinje and muscle cells 383:143
C-fiber terminals 379:143
cGMP 383:245
Changes in diffraction patterns, muscle fibres 379:101
Channel kinetics 386:101
Chemical sympathectomy 390:17
Chemically skinned fibres of smooth muscle 390:198
Chemoreceptive mechanism 375:229
– process 388:137
Chemoreceptor afferents 381:249
– interaction 374:39
– stimulus 374:205
Chemoreceptors 374:187; 380:53; 381:241; 387:189
– discharge 380:53
Chemosensitive area 375:289
– areas 388:53
– mechanisms, peripheral and central 375:257
– structures 376:229
– zones 387:189
Chemosensitivity, medulla oblongata 371:125
Chill sensation in fever 384:103
Chloride 381:171, 209; 382:193, 217, 281; 389:199
–, and membrane current 372:121
– binding 376:169
– channels 387:153
– reabsorption 390:38
– transport 378:87; 389:263; 390:38
– –, cornea 373:179
– – system, erythrocytes 375:87
Chloropromazine 387:115
Chlorotetracycline 372:259
Chlorothiazide 389:121
Chlorpromazine 383:229
–, erythrocyte deformability 373:43
Cholecystokinin 382:263
– antagonist 382:263
– (CCK-8) 390:17
– -pancreozymin 384:83
Cholesterol, feeding upon erythrocytes 373:39
Choline 390:30, 38
Cholinergic-blockers 383:257
– blocking agents 377:185; 379:125
– excitatory tone 381:75
– nerves 386:53
– receptors 372:231
– stimulation (acetyl-β-methylcholine) 384:287
– synaptic transmission 379:125
– vasodilatation 378:149; 383:245
Cholinesterase inhibitor, eserine 379:125
– solubilization 386:67
Cholinolytic compounds (α-bungarotoxin, curare and atropine) 380:101
Cholinomimetic drugs 379:29
Choralose 383:249
Chronaxie of strength-duration curve 388:221
Chronic hypoxia 386:39
– renal failure 376:193
– spinal cats 377:25
Chronotropic effect 388:1
Circadian activity rhythms 376:241
– rule 376:241
Circular duodenal muscle 372:243
Circulating arginine vasopressin concentration 383:241
– blood volume 374:285
Circulation 379:19, 29
–, central 374:115
–, gas embolism 374:131
–, in capillaries 390:283
Circulatory activity, regional 372:157
– arrest 375:251
Circumferential wall stress 390:113
Citrate synthase 389:195
Cl and Na movement, smooth muscle 386:35
Cl flux, cornea 373:179
Cl transport 383:215
Clearance experiments 382:109
– of PAH 390:186
– studies 382:123
– titration studies 377:9
Clearances, renal 371:9
Climbing fibre system 375:125
– fibres 371:147; 375:119; 383:137
Cloacal resorption 379:229
Closed chest coronary artery catheterization 388:197
– circuit television system (CCTV) 379:101
Closing of the ion channel 389:283
CO_2 377:135
CO_2-electrode 375:279
CO_2, on membrane potential 371:179
CO_2 pressure, end-tidal 372:289
CO_2 pressure, intracerebral 375:25
CO_2 rebreathing 385:21
CO_2, respiratory response 378:231
CO_2 response 378:231
CO_2 transport 378:197
Coaxial glass capillary electrode 378:141
Cobalt, acetylcholine release 377:57
– effect 386:21
–, rested state contraction 377:167
Cochlea 380:7
–, alligator lizard 373:77
–, anoxia and K^+ concentration 372:207
Colchinine 387:269
Cold 373:189; 390:224
– acclimated rats 384:159
– acclimation 381:113; 385:155, 223
– adaptation 390:224
– block, vagal 381:1
– blockade 390:63
– diuresis 378:213
– environment 383:209
– exposure 377:181; 383:241; 388:83; 389:115
– fibres 386:1
– -induced brain edema 386:71
– or hypoxia on ventricular weights 385:155
– receptor 382:1
– -sensitive afferents 380:203
– stage 390:54
– stimuli 388:17
– stress 378:55
Coli endotoxin 387:175
Collateral flow 373:219
Collecting duct 373:105, 229; 390:131
– – function 373:113
– tubule 382:209
– tubules 373:125
Colon 379:229; 381:75; 388:165
– and coprodeum transport 379:237
–, heterogeneity of transport 378:71
– mucosa 376:245; 384:279
–, organic acid absorption 379:43
Colonic epithelial cells 388:205
– motility 388:233
Common carotid occlusion 379:81
Comparative rheology 390:278, 283
Compartmental analysis of Na efflux 378:155
Compensation mechanism 381:119
Compensatory hypertrophy 385:161
Complex spike 375:125
Compliance, dynamic 371:285
– of the circulation 374:121
Compound spike potentials 379:281
Compressed skinned muscle fibers 390:161
Computed subpopulations 373:283
– -aided monitoring 371:175
– analysis 376:259; 381:15
– -controlled sequential stimulation 390:164
– simulation 385:243
Computerised image analysis 381:11
Concanavalin A 386:245
Concentrating ability 390:138
Concentration velocity 382:165
Conductance 377:185; 383:249
– change 374:145
– changes by external K 381:263
Conduction, delay of 371:135
– microcalorimeter 381:113
– velocity 375:31; 381:209; 389:199
Conductive plastic 380:283
Conductivity measurements 383:113
Cones 373:199
Conscious dogs 383:233; 389:9
Consecutive reaction model 383:75
Constriction, coronary 372:187
Continuous amylase assay 384:287
– diameter monitoring 373:195
– microperfusion 389:137
Contractile and histochemical properties 379:209
– and performance variables 375:141
– characteristics 389:149
– mechanism 376:97
– properties 378:251
– – of soleus 390:73
Contractile proteins 375:111; 381:53; 388:63
– response to vasoactive agents 374:73
– responses 382:43
– tension 389:97
Contractility 372:23; 378:31; 381:171; 390:73
Contracting muscle 372:113
Contraction 373:21; 374:167; 376:55, 217; 379:121
–, evoked, of muscle 373:211
–, levator ani 371:3
– of arterial smooth muscle 381:63
– respiration 381:249
Contractions with shortening 374:97
Contrast sensitivity 377:201
Control of breathing 374:39; 381:1

– of insulin release 383:41
– of respiration 374:205, 211
– of ventilation 383:9
Convergence 374:145
– of macular and ampullar inputs 384:193
Converting enzyme inhibitor 385:211
Convulsions 388:177
Cooling 377:87; 386:1
–, hypothalamus 372:157
–, nasal 372:115
– of hypothalamus 373:59
–, total body core 373:259
Copper, in plasma 389:177
Coprodeum 379:229
– and colon transport 379:237
Core temperature 373:259; 374:47; 378:227
Cornea, human 373:179
Corneal epithelium 383:131
– Na flux 373:179
Coronary adaptation to ischaemia 379:223
– arterial strip 374:73
– artery 373:219
– – ligation 376:209
– bed, O_2-Shunt 374:57
– blood flow 376:201; 380:211; 382:57; 388:193
– collateral circulation 373:219
– conductance 379:223
– dilatory capacity 372:181
– flow 372:181; 378:9
– innervation 372:187
– occlusion 380:99
– perfusion 383:105
Cortex, cerebellar 372:203
–, field potentials 389:159
–, O_2 consumption 372:175
–, subarachnoidal space 372:103
Cortical collecting duct 378:71
– collecting tubule 384:203
– thick ascending limb 390:38
– – – – (CTAL) 378:15
– – – – of Henle's loop 390:30
Corticosteroid hormones 379:187
–, renal action 385:189
Corticosteroids 380:145; 385:25
Corticotropin 384:159
– treatment 384:159
Cotransport, NaCl, renal 390:38
– system sensitive to furosemide 378:87
Cotyledonary unit 377:225
Counter current system, renal 378:15
Countercurrent multiplication system 373:229
– multiplier 382:7
Coupled Na: K transport 378:243
– sodium and chloride transport 378:87
Cow ventricular muscle 389:37
Crayfish muscle fibres 387:281
– retina 387:225
Creatine kinase 385:105; 386:71
– phosphate 374:193
– phosphokinase 376:55
Crithidia assay 375:9
Critical O_2 supply 372:37
Cross-bridge 376:97
– – movement 378:31
– -bridges 375:207; 382:155
– -reinnervated rabbit soleus 384:219
– -reinnervation 390:246
– -striated muscle 374:97
– -tachyphylaxis 380:13
^{14}C-(U)-glucose 386:47
Culture of mammalian nephron epithelia 382:209
Cultured muscle cells 385:37
Cupular movement 388:93
Curare 380:101
Current application, intracellular 372:17
– clamp 390:237
– fluctuation analysis 390:156
– – -voltage relationship 390:207
– injection 380:91
–, inward, sinoatrial node cell 372:43
– pulses 376:217
– source density analysis 389:159
– -voltage relations 374:79
– -voltage relationship 377:235; 384:49; 389:37
Currents, time-dependent 387:217
–, time-independent 387:207
Cutaneous afferent C- and A-fibers 379:143
– blood flow 377:143
– sensilla 377:189
– sympathetic activity 375:17
Cuvette, wedge 372:279
Cyclic AMP 371:211; 373:99, 105, 179; 374:229; 379:259; 383:257; 390:145
– – accumulation 390:49
– –, Ca^{2+} 390:49
– – mediated relaxation 390:198
– 3'5'-AMP 372:29
– and non-cyclic variations 380:215
– nucleotides 383:245
CycloAMP 389:115
Cycloheximide 384:155
Cytochrome *c* 373:175; 377:181; 390:211
Cytoplasmic K^+ activity 378:37
– resistance 371:109

D

D 600 386:251
D 600 (methoxyverapamil) 385:175
Dantrolene (DaNa) 385:37
Dark adaptation, man 376:81
Day-night rhythm 380:215
DB-cAMP 390:145
De Lange curves 373:199
Deamino-d-arginine-vasopressin 377:81
Decarboxylase inhibition 377:245
Decerebrate cats 381:179; 384:193
– rigidity 372:131
Decerebrated cats 377:255; 383:47
Decompression sickness 374:125
Deep body temperature 374:47; 384:253
– – thermosensitivity 379:291
– core thermosensors 380:203
– radial nerve 374:107
Defecation reflex 388:45
Defense reaction 376:177
Deflation receptors 372:1
Dehydration 374:229
Delay line 380:79
– of conduction 371:135
Delayed potassium conductance 379:157
– pulse generator 378:259
– rectification 377:235
– tension development 382:155
Delta EEG (Sleep)-Inducing Peptide (DSIP) 376:119
Denervated slow muscle fibres 372:17
Denervation 373:225; 379:89; 380:111
–, muscle fibres 382:43
– of kidney 373:161
Deoxicorticosterone 390:260
Deoxycholate 373:133; 379:297
11-deoxycorticosteroid 385:25
Deoxycorticosterone (DOC) 385:25
2-deoxy-d-glucose (2-DG) 384:279
Descending limb of Henle 382:7
Desert rodent 390:138
Deuterium oxide 385:71
Development, intrauterine 372:149
– of ammonia and glucose productions 379:95
– of hypertension 381:19
– of responsiveness to pharmacological blockade 390:262
Dexamethasone 373:105; 386:11
D-galactose 384:279
D-galactose transport 389:155
D-glucose transport 384:39
D-glycerate-2,3-P 378:197
Diabetes insipidus 373:167
–, streptozocin induced 386:245
Diabetic-obese (db/db) mouse 380:227
Diameter, vascular 372:109
Diameters of small arteries 388:261
Dianabol 375:147
Diastolic depolarization 387:197
– postero-anterior area of the heart 374:119
Dibutyryl cyclic AMP 372:69; 373:209
– -cAMP 377:65
Dichtomy of the membrane potential response 383:181
Diet-induced thermogenesis 389:237
–, influence on cecum ATPase 372:83
Dietary Na^+ effects 379:229
– sodium intake 374:199
Differential vagal cold-blockade 390:63
Diffractometer 374:97
Diffusion, binary 371:227
– coefficient 372:37
– coefficients of oxygen and haemoglobin 384:213, 241
– conductivity 374:57
– of oxygen and oxyhaemoglobin 384:231
–, oxygen 372:221
– potentials across epithelium 390:30
–, ternary 371:227
Diffusional permeability 373:105
– – of the toad cornea 383:131
– water permeability 373:99
Digestive system CBF 390:86
Digoxin 386:161
Dihydroergotamine (DHE) 386:281
1,25-dihydroxycholecalciferol 388:227; 389:81
1,25-dihydroxyvitamin D_3 380:47
Diisopropylphosphorofluoridate 382:115
Dilatory capacity, coronary 372:181
Diluting capacity 386:11
2-4-dinitrophenol 380:267; 388:217
Diphosphoglycerate 376:169
2,3-diphosphoglycerate 372:287; 375:189; 386:135
2,3-diphosphoglycerate (DPG) 376:237; 389:61, 81, 227
Diphosphoglyceric acids 389:61
Diphosphoglyceromutase 389:61
Dipyridamol, coronary dilation 373:219

Direct electrical stimulation of the brain cortex 378:47
Disaccharides, tubular reabsorption 371:141
Discharge activities, γ-efferents 372:195
– of neurons in chemosensitive areas 388:53
– pattern, muscle spindles 372:131
– patterns of Purkinje cells 375:125
– –, static and dynamic 386:1
– properties of afferent fibres 388:111
Discharges of muscle spindles 374:159
Disequilibrium, glomerular filtration 371:235
– pH 386:97
Dispersed cells 381:281
– pancreatic acinar cells 385:131
Dispersions of sarcomeres 379:101
Dissociated smooth muscle cell 390:207
Distal convoluted tubule 389:91
– inulin recovery 372:251
– nephron 374:153
– – acidification 377:229
– renal tubule 389:121
– segments from adrenalectomized rabbits 384:203
– tubule function 377:69
Distensibility of guinea-pig colon 381:75
– of venous grafts 384:177
Distention, effect on acid secretion in Heidenhain pouches 386:53
Distribution of sodium 385:243
Diuresis 373:49; 374:199
–, isotonic saline induced 373:139
Diuretic effects 371:9
– – of hypothalamic cooling 378:213
Diuretics 373:113; 384:57, 61; 389:121, 263
Diurnal changes of thermoregulatory functions 386:173, 181
– rhythm 386:173
Divalent cation requirement 383:123
– cations 377:57; 380:7
Divergence 374:145
D-lactate 390:80
dl-propranolol 387:107
DMO 376:27
DNA 390:5
DOCA, isolated tubule function 373:125
– -saline treated uninephrectomised rats 379:245
– -salt hypertensive rats 390:260
– – treatment 387:39
– -treatment 380:233
Dopamine 374:105; 375:183; 390:296
– turnover 380:127
Doppler velocimeter 382:241
Dorsal root ganglion cells 386:21
– – potentials 381:201
D:rsiflexion of the body 374:107
Double Bohr effect 376:169
Double-barelled pH microelectrode 386:121
d-ozolinone 384:61
2,3-DPG 380:65
DS-carcinosarcoma 372:37
D-tyrosine 379:245
Dual wavelength microspectrophotometer 385:167
Duct lymph 378:127
Duodenal muscle 372:243
Duodenum 385:117; 388:227
Duration of action potential, Purkinje fibres 371:61
– of the action potential 390:237
Dye dilution 379:59
Dynamic elastic modulus 390:113
– hematocrit 380:115
– young's modulus 387:261
Dynamical properties 373:199
Dystrophic skeletal muscle 373:175
Dystrophy 373:175; 381:53

E

Ear artery of the rabbit 387:17
Eccrine sweat 377:65
– – secretion 390:49
Edema fluid 386:71
–, gallbladder 373:9
EDTA 375:97; 384:149
EEG 384:167
– delta activity 374:101
Effective circulatory compliance 374:121
– filtration pressure 371:235
Effector mechanisms, thermoregulation 386:173
Efferent vestibular system 372:139
Efflux (Ke) and influx coefficient (Ki) of Ca^{2+} 374:255
– pools 378:155
EGTA 371:77; 374:31, 67, 219; 382:165, 275; 386:147
EGTA-CaEGTA buffer 382:133
Elastic and inelastic behaviour 387:261
– and viscous properties of elastic arteries 390:113
– arteries 390:113
– electrodes for nerve stimulation 380:283
– elements of attached cross-bridges 382:155
– forces 380:221
– properties 373:21
Elasticity of veins 384:177
–, vascular smooth muscle 378:25
Electric field effects 390:94
– organ 377:117
– potential gradients 390:94
– stimulation, hypothalamus 371:279
Electrical activity 376:259; 381:15
– –, circular duodenal muscle 372:243
– – of Auerbach's plexus 374:265
– communication 380:277
– conductivity of tubular fluid 383:113
– coupling 380:267
– – between acinar cells 376:159
– description, respiratory neurons 372:7
– field stimulation 388:221
– impedance of necturus gallbladder 389:105
– membrane potential 373:243
– parameters of isolated frog skin 379:71
– potential difference, loop of Henle 390:30
– properties, atrio-ventricular node 371:135
– –, gallbladder cells 371:109
– resistance 383:55, 229
– –, cell membrane 371:99
– rhythm (BER) 381:15
– spontaneous activity 371:147
– stimulation 375:31; 376:217
– –, effect on cerebral isorenin 373:15
– – of one VIIIth nerve 380:79
– tetanic stimulation of muscle 373:211
Electrically activity of isolated semicircular canal 388:93
Electro-chemical potential for Ca^{2+} 374:255
Electrocorticogram 387:121
– (ECoG) 388:149
Electrode bevelling 381:287
Electroencephalogram 374:101
Electrogenesis of pumps 379:215
Electrogenic calcium influx 381:171
– Na pump 376:159
– Na^+ transport 371:99
– Na-K pump, intestine 381:185
– pump 380:101
– – potential 378:111
– pumps 387:207
Electrolyte absorption 388:165
– excretion 381:223
– pump, cornea 373:179
– transport 376:73; 377:69; 388:205
– –, cornea 373:179
– –, frog skin 374:235
– –, ozolinone 384:57
– –, rectal gland 378:87
– –, red cell ghosts 375:87
– –, renal 378:15; 379:11
– –, smooth muscle 386:35
Electrolytes, effect on pial arteries 374:67
–, extracellular fluid 376:131
– in biological soft tissues 373:85
–, intracellular 385:1
– (Mg^{2+}, Mn^{2+}, Co^{2+}, Ca^{2+}) on auditory neurons 380:7
–, uptake by pancreatic islets 378:93
Electrolytic lesion in area postrema 372:169
Electromagnetic blood flow 386:93
– flow meter 372:109
– – probe 381:143
– flowmeter 384:57
– flowmeters 386:77
Electromyogram 381:47
– (EMG) 380:215; 388:149
Electromyography 382:51
Electro-neutral Na: Na or K: K exchange 378:243
Electron microprobe analysis 385:1
– probe analysis 377:95; 390:54
– – Na, K, Cl 390:54
Electronic characteristics, respiratory neurons 372:7
– device, end-tidal P_{CO_2} 372:289
– potentials 378:1
Electrophoretic motion 390:94
Electrophysiology 375:125; 381:231; 389:127, 159
Electroretinogram 372:165; 373:199
– (ERG) 375:251
Electroviscous flow 390:94
Elementary conductance 381:263
Elimination of erythrocytes from the circulation 388:69
Ellipticity 385:223
Embryo 372:149
Embryonic haemoglobins 377:75
EMG activity 385:263
Emotional stress 373:211
End-diastolic volume 374:135
Endocrine pancreas 383:41; 388:249
Endocytosis 390:211

Endolymph 388:93
–, cochlear 372:207
Endolymphatic resting potential 373:77
Endothelial capillary swelling 388:243
Endotoxin-challenged neonates 389:175
– fever 374:15
– shock 374:105
End-plate current 382:127; 386:67
End-tidal gas pressures 372:289
Endurance 389:149
– training 389:195
Energetics of rat papillary muscle 379:173
Energy balance, lung cells 371:19
– dispersive X-ray microanalysis 373:85
– dissipation (E) 390:224
– metabolism 374:3; 379:203
– output, muscle 373:31
– production, isolated lung cells 371:19
– sources 389:257
– supplying enzymes 379:203
Enhancing fever 381:35
Enteric nerves 381:75
– neurons 374:265
Enterocytes 388:11
Enterohormones 376:73
Enthalpy change 389:257
Environmental salinity 377:101
Enzymatic microdissection 385:45
Enzyme activation 389:21
– –, ATPase 380:101
– activities 389:61
– activity, glycogen metabolizing 379:301
– release 373:133
– –, brush border 379:297
Enzymes, brush border 371:141
Enzymology, muscle 378:99
Epidermal lateral-line organ 375:167
Epididymis, secretion of organic compounds 387:61
Epileptic seizures 389:159
Epinephrine 372:115; 373:179; 382:17; 385:131; 388:1
Epithelia, gallbladder 371:109
Epithelial cell oxydative phosphorylation 388:217
– cells 383:99; 384:69
– differentiation 382:209
– leakiness 385:29
– transport 378:15, 71, 155; 388:217
– –, colon mucosa 376:245
– –, gallbladder 377:125; 384:155
– –, hormonal effect 383:151
– –, intestine 383:55
– –, salivary duct 376:73
Epithelium 389:105
Epitheloid cells 382:209
EPSP 374:265
Equatorial X-ray reflections 372:113
Equilibrium dialysis 372:77
Ergometry 376:35
–, bicycle 380:205
Error-free phaseshift measurements 378:141
Erythrocyte 389:61, 81
– deformability 388:69; 390:94
– deformation 390:278
– flow time 390:94
– ghosts 375:87
–, H^+-, Cl^-, and H_2O shift 376:27
– membrane 379:191
– microrheology 390:278
– uptake by dog's spleen 388:37
Erythrocytes 371:263; 372:149; 376:169; 378:197
–, adaptation 373:39
–, capillary velocity 375:153
–, deformability 373:39
–, deformability and Ca^{2+} 373:43
–, 2,3-diphosphoglycerate 375:189
–, flow to renal medulla 373:153
–, haemoglobin, oxygen affinity 383:209
–, human 372:259
–, lipids 373:39
Erythropoiesis 389:61
Erythropoietin 389:81
Escape reaction 382:249
Espiratory neurons 372:7
Essential hypertension 371:263; 375:153; 379:191; 388:89
Ethacrynic acid 386:161; 389:263
– –, diuretic effect 371:9
Ethane-1-hydroxy-1,1-diphosphonate (EHDP) 388:227
Euthyroid, hypothyroid and hyperthyroid mice 390:224
Evans blue 372:279
Evaporative tissues 382:255
Event-related brain potentials 389:55
Everted jejunal sacs 376:47
Evoked contraction of muscle 373:211
– contracture 386:127
– membrane potential 386:147, 153
– potential (VEP) 375:251
– potentials 380:85; 384:167
– –, Purkinje cells 380:79
– responses 382:51
– synaptic potentials 374:265
Excitability testing 379:143
Excitation-contraction coupling 374:167; 379:117; 380:171, 181; 381:63; 387:17; 390:237
Excitatory postsynaptic current 378:205
– transmitter from cochlear hair cells 380:7
Excretion 390:164
Exercise 371:161; 372:181; 373:175; 375:141; 376:35, 41, 215; 377:143, 251; 378:65, 99; 379:105; 382:105, 197; 383:41; 385:21, 65; 386:215; 387:33; 388:83; 389:17; 390:179
–, and blood pressure 372:95
–, bicycle 374:193
– induced changes of the extracellular K^+ concentrations 387:231
–, muscle reactivity 373:1
–, recovery 380:205
– test 382:241
– training 372:181; 385:147
Exertion 386:215
Exhausting exercise 378:99
Exhaustion 374:289
Exocrine ductal pCO_2 380:121
– pancreas 372:69
– pancreatic secretion 384:83
Exocytosis 387:269; 388:249
Experimental acute renal failure 372:251
– autoimmune myasthenia gravis (EAMG) 390:156
Expiratory duration (T_E) 379:53
– neurons 383:9
External acidification 374:219
– – and internal pCa 374:31
– Ca 376:21
– heart work 380:259
Extracellular fluid volume 376:131; 390:270
– free calcium 382:275
– H^+ activity of skeletal muscle 387:231
– H^+ and K^+ activities 378:47
– ions, replacement 372:121
– $[K^+]$ 384:49
– K concentration 381:271; 387:231
– markers 382:67
– micro electrode recordings 383:1
– patch clamp 375:219
– – – technique 389:293
– pH 375:257
– potassium 376:139; 383:181; 388:169; 389:1
– – concentration 389:37
– sodium 381:217
– – activity 377:209
– space determination 382:67
– volume 387:39
– – expansion 381:99
Extracerebral arteries 374:73
Extraction of ^{86}Rb 390:216
Extrafusal muscle activity 372:131
Extrajunctional acetylcholine sensitivity 390:265
Eye, cornea 373:179
– muscles 382:51

F

Facilitated diffusion 372:221; 384:231, 241; 390:299
– – of lactic acid 385:229
– oxygen transport 389:211
Facilitation 382:127
Facilitatory interactions 372:139
Fahraeus effect 390:283
Fanconi syndrome 382:109
Fast and slow muscle 384:123; 387:33
– – – twitch muscles 380:111; 390:164
– excitatory postsynaptic current 378:205
– inward current 372:43
– measurement of CO_2 partial pressure 375:279
– muscle 389:149
– twitch fibre subgroups 379:105
– – fibres 375:245
– – muscle 379:301
– – skeletal muscle 390:73
Fat, body 375:147
Fatigue 389:149
–, muscle 387:33
Fatty acid oxidation 374:9; 385:111
– – transport 390:169
– acids 384:159
– –, short chain, colonic absorption 379:43
Fechner scaling of brightness 386:141
Feedback influence on glomerular filtration rate 381:99
Feedback, tubuloglomerular 373:69
Femoral arterial strip 374:73
Femur morphometry 375:233, 239
Ferrocyanide 377:101
Fetal and adult erythrocytes 378:197
– and newborn lamb 388:149
– blood 372:149; 375:189
– – pressure 390:262
– breathing 388:143, 149
– circulation 377:217

Fetal erythrocytes 376:169
– heart 390:262
– venous pressure, placenta 371:251
Fetus 389:61
Fever 374:15; 384:103; 389:175
– and survival 381:35
Fiberoptic reflection densitometer 379:59
– – oximeter 373:273
Fibre composition 380:153
– cross sectional area 380:153
– diameter 376:209
– type area 375:245
– types 379:105; 384:219
– types, human muscle 371:161
Fibrillar muscle 382:155
Fibrillating canine heart 379:223
Fick method 375:213
– -principle for CO_2 385:21
Fick's equation 371:227
Field potential analysis 375:119
– potentials 375:119; 389:159
Filling intracellular reference microelectrodes 390:96
Filter photometry 373:273; 379:59
Filtration coefficient 381:25
– disequilibrium 371:235
– fraction 374:199
– pressure equilibrium 385:253
– rate 379:11
Firing pattern of respiratory neurons 383:1
Fish myofibrillar ATPases 371:257
Fixed acids 377:135
– base 377:135
– Haldane effect 389:219
– -acid Bohr effect 389:227
Flexible arm 388:191
Flocculation 386:245
Flow-autoregulation 380:259
– dependent extraction of ^{86}Rb 390:216
– -diameter probe 372:109
– meter 372:109; 383:71
– of spinal cord temperature 385:269
– resistance 388:75
– –, isolated placenta 371:251
– – of spiral artery 377:225
– velocity in capillaries 388:75
– – of blood 374:91
Fluctuation analysis 387:9; 390:22
Fluid absorption by the loop of Henle 381:99
– balance 383:241
– reabsorption 389:85
– secretion 382:275
– transport, gallbladder 373:9
– – in cat kidney 372:239
– volume distribution 383:195
Fluorescein 380:267
Fluorescence 385:167
– videomicroscopy technique 382:137
Fluorescent dyes 378:9
– probes 380:277
Fluorocarbons 376:1
Flux, chloride, erythrocytes 375:87
– of 3-O-methyl-D-glucose 379:1
Foetal rat kidney 379:95
Follicle lumen, thyroid 372:145
Food intake 384:253; 389:171
Force development 390:296
– inhibition 390:161
– production in compressed skinned muscle fibers 390:161
– -velocity 377:119
– – relation 378:31; 379:251; 381:71
– – relations 372:23
Forces driving lymph flow 378:121
Forelimb reflexes 374:107
FORTRAN program 381:15
Free fatty acid (FFA) carrier 390:169
– – acids 383:87
– water clearance 374:23; 384:135
Freerunning circadian rhythms of man 381:119
Freeze-dried cryosections 373:85
– -etching 381:127
Frequency analysis 384:1
– characteristics 379:303
– dependence of lanthanum effects 380:19
– modulated interspike interval distributions 383:1
– response 375:167; 377:15
Frog atrial muscle 375:69
– skin 371:201; 374:235; 379:71; 390:22
– –, isolated epithelium 371:211
Fructose transport, brush border 373:243
Fuels mobilization 374:3
Functional hyperemia 382:81
Functionally skinned rabbit soleus 388:63
Fundic gastric mucosa 383:99
Furosemide 373:69, 113, 161; 374:255; 378:87; 382:217; 383:113; 385:111; 386:161; 389:121; 390:30, 38
–, indomethacin antagonism 372:215

G

GABA 379:149; 385:51; 387:143, 153, 189
– in crayfish muscle 387:153
– -mediated inhibion 388:177
Gallamine 388:123
Gallbladder 377:43
– epithelium 371:109; 377:125; 384:155; 389:105
–, fluid transfer 373:9
Gamma efferents 372:195
– -vinyl-GABA 388:177
Ganglion cells 376:21; 386:21
– – in Auerbach's plexus 374:265
Gas chromatography 375:161
– embolism 374:125, 131
– mixture 374:125
– mixtures 371:227
– tensions 374:211
Gases, insoluble 384:267
Gastric emptying 384:65
– H^+-secretion 387:269
– inhibitory polypeptide GIP 376:73
– juice 387:269
– motility 388:233
– mucosa 383:99
– secretion 384:65; 386:53
– stimulation 387:269
Gastrin 376:73; 386:53, 127
Gastrocnemius 375:245
– muscle 374:159
– muscles, myoglobin concentration 373:175
– -soleus motoneurons 385:263
Gastrointestinal function 374:265
– smooth muscle 371:119
– tract, organic acid absorption 379:43
– –, sugar transport 379:1
– transport 385:137
– –, lactate + bicarbonate 385:143
Gastrooesophageal tract 373:25
Gating current 375:75
– kinetics 390:22
Gaussian noise 390:290
– subpopulations 373:283
Gel electrophoresis, two dimensional 378:251
Generator potential 388:93
– –, optic 372:165
Genetically obese (fa/fa) zucker rat 390:10
– – (ob/ob) mouse 373:189
Gestation 379:95; 390:262
GFR, regulation 379:269; 387:39
– -monitoring 383:71
Giant axons 378:243
Gill vascular bed 383:35
Glass electrode catheter 386:95, 97
– electrodes 372:101
– -membrane pH microelectrode 380:121
Glial cells 376:229
Gliclazide 388:249
Glomerular blood flow 382:91
– capillary pressure 381:99; 385:253
– dynamics 382:99
– filter resistance 389:251
– filtration 371:235; 374:199; 375:105; 377:101; 389:85, 251
– – rate 371:9; 372:239, 251; 373:69; 375:131, 261; 376:193; 379:11; 381:99, 165; 382:123, 217; 383:71; 384:135; 385:161; 388:211
– tubular balance 384:39
Glomeruli 385:253
Glucagon 378:135; 381:113; 383:41; 369:21, 29, 115; 390:10
Glucocorticoid 380:145
– hormones 385:189
– -induced atrophy 385:147
Gluconate 381:171
Gluconeogenesis 374:3, 9; 379:95
Glucose 373:1; 376:41; 382:35; 383:55; 385:137; 388:249; 390:17
– -evoked transmural electrical current 379:1
– -induced insulin release 375:197; 385:217; 388:249
– metabolism 382:197
– permeability 384:39
– -1-phosphate 372:29
– -6-phosphate 372:29
– 6-phosphate 389:277
– 6-phosphatase (G6Pase) 379:95
– recycling 386:47
–, renal transport 388:29
– transfer, placenta 371:251
– transport 390:202
– –, brush border 373:243
– turnover 386:47
– uptake in adipose tissue 379:187
– utilization, lung cells 371:19
β-glucuronidase 378:99
Glutamate 388:101
Glyceminated smooth muscle 382:133
Glycerol 376:41; 384:159; 390:169
– extracted fibres 387:261
Glycine 382:109; 385:51
Glycodiazine 384:116
– transport 389:271
Glycogen 377:251; 389:277
– depleted and control subjects 382:197
– depletion 379:105

– level in muscle 373:1
– metabolizing enzymes 379:301
– phosphorylase 379:301
– repletion in muscle 373:1
– stores 382:197
– –, liver 374:3
– synthase 379:301
Glycogenolysis 389:277
Glycolysis 375:189; 377:1
Glycolytic enzymes 379:203; 389:61
– intermediates in human muscle 389:277
1,25-glycoside 389:81
Goal-directed behaviour 389:55
– – hand movements 381:39
Goat 383:241
–, heat production 373:59
Goldblatt hypertension 380:233
Goldfish semicircular canal 388:111
– vestibular nerve 388:123
Goldman constant-field equation 378:111
Gonadectomy 389:301
Gonadotropins 375:147
Goodness of fit 373:283
Granular portion of distal convoluted tubule 389:91
Gravitation factor 382:171
Gravity 387:239
–, influence of 371:227
Grooming behaviour 382:249
Growth 385:155; 386:39
–, muscle capillarity 380:153
– requirements 382:209
Guanethidine 377:43; 381:75
Guanidino succinic acid 372:275
Guanosine 3′,5′-monophosphate 383:257
Gylcogenolytic effect of adrenaline 373:1

H

H^+ activity 372:103; 378:47
H^+ gradient 388:205
H^+ secretion 376:193
H^+ sensitivity of neurons 388:53
Haematocrit 372:287; 374:285; 390:283
–, inner medullary 373:153
Haematocrits 380:115
Haematopoiesis 380:65
Haeme oxygenase induction 380:65
Haemochorial villous placenta 377:225
Haemoconcentration 380:1
Haemodilution 380:1; 386:111
Haemodynamic adaptation 384:177
Haemodynamics 384:135; 385:203
–, renal 372:215
Haemoglobin 376:27; 372:279; 377:135; 382:57; 383:209; 384:241; 386:135; 389:219, 227; 390:99
–, HbF_{11} and HbA_1 378:197
–, oxygen affinity 372:287
– saturation, intracapillary 374:57
– solution 384:231
Haemoglobinemia 380:65
Haemoglobins 372:149
–, embryonic 377:75
Haemorrhage 371:193; 376:185; 379:81; 384:261
Haemorrhagic hypotension 382:233
Haemorrhagic shock 386:277
Hair cells 373:77
Hairless skin 371:217
– –, potentials 377:25
Haldane effect 389:219
Half-field stimulation 376:81
Half saturation tension 372:287
Halothane 375:111, 213; 378:127; 383:249; 388:63
Hand contraction 389:55
Handedness 381:39
Harmaline 382:35
HbA_1 378:197
HbF_{11} solutions 376:169
HbF_{11} 378:197
Hb_{O_2} affinity 382:57
HCO_3 loading 386:161
HCO_3 Transport 389:271
HCO_3^--ATPase 374:219
Heart 374:79; 389:37
– acclimation 381:113
– block 388:193
–, Ca channel 385:175
–, cardiac output 379:59
–, current, sinoatrial node cell 377:193
– exchange 372:115
– failure 386:269
– fibres 389:199
–, frog, voltage clamp 379:259
– in situ 374:91
–, isolated perfused 380:259
–, left atrial pressure 373:49
–, microcirculation 378:9
– muscle 371:51; 376:217; 381:271
– –, adrenoreceptor 383:185
– –, anion dependence of contraction 379:121
– –, electrical and mechanical properties 381:171
–, –, frog and tortoise 377:235
– –, surface electrogram 380:139
– –, TNI 374:277
– – voltage clamp 381:287
–, myocardial force-velocity relations 379:251
–, potassium channel, S-A node 386:101
–, Purkinje fibres 377:209
– rate 372:169; 374:115; 380:189; 381:19; 385:65, 203; 386:199; 388:83; 389:181; 390:262
– –, instantaneous 384:1
– –, telemetry 372:95
– size 374:119
–, vagus cardioinhibition 379:281
– volume 374:115
– weights 385:155
Heat clearance 383:223
– defence activities 374:47
– exchange 372:115
– exposure 375:177; 383:189
– -dissipating responses 389:297
– gain 386:173
– load 382:255; 387:161
– loads 384:253
– loss 377:245; 379:113, 165; 386:173; 387:183
–, noxious 372:53
– pain 382:249
– production 373:59, 259; 374:179; 377:245; 379:113
– –, cardiac muscle 373:31
– stress 374:47; 378:55
– – effects 390:86
– – relation 379:173
Heating, rabbit ear 375:17
Heatstroke 388:129
Heidenhain pouches 386:53
H^+-elicited excitation of neurons 379:125
Helium 371:227; 374:125
– glow photometer 380:159
– ionisation detector 375:161
Helix pomatia 389:293
Henle's loop 382:209; 383:113, 215; 390:30
– – perfused in vitro 374:255
– loops 382:7; 384:57
Hepatic arterial blood flow 386:77
– – vasoconstrictor response 378:135
– artery 381:151
– denervation 386:77
– glycogen stores 374:3
– receptors 390:270
– vein catheterization 387:67
Hepatocytes 386:245
HEPES 379:149
– buffer 377:33
Hereditary hydronephrosis 389:301
Heterogeneity 378:71
–, tubular 372:269
Hexamethonium 377:43; 379:29, 125; 382:269
Hexokinase 379:203
Hexosamine content 390:152
Hexose monophosphate shunt 376:223
– phosphates 389:277
^{3}H-(2)-glucose 386:47
H_1-H_2-receptors 387:17
High altitude 374:285; 380:65; 384:109; 386:39, 269
– blood pressure 379:245
– -frequency microelectrode recording 378:141
– – stimulation 388:111
– output heart failure 385:203
– -precision scope calibrator 376:259
– protein diet 386:165
– speed stretches 375:207
– tension state 382:155
– threshold fibres (C) 374:145
Hill-coefficient 390:156
– equation 379:251
Hindlimb reflexes 374:107
Hindpaw, skin potentials 371:217
^{3}H-inulin 380:105
Histamine 372:53; 386:53; 387:17, 269
– aerosol 386:231
Histidine 384:116
Hodgkin-Huxley equations 381:209
– – process 381:271
– – type kinetic 385:11
Homeostatic adjustments 375:177
Homeostatis 390:125
Horizontal canal 372:139
– cells 375:61
– – in carp retina 375:53
– linear acceleration 385:123
Hormonal nature of the natriuretic factor 382:73
Hormone receptor 390:120
– release, hypothalamus 385:79
– -stimulated cardiac adenylate cyclase 390:10
Horseradish peroxidase 375:289
Host defense 389:175
H^+-sensitive glass microelectrodes 378:47
Human amblyopia 377:201
– circadian rhythms 381:119
– EEG 384:167

Human isolated cornea 373:179
– muscle 371:161; 389:277
– – metabolism 376:35
– muscles 375:245
– scalp 381:39
– small intestine 373:243
– stomach 382:145; 386:127
Hyaluronidase 390:152
Hydraulic conductance 373:205
– conductivity 373:9
– cuff occluder 380:99
– hindrance 375:153
Hydrochlorothiazide 389:263
Hydrocortisone 382:123
Hydrofluoric acid etching 372:101
Hydrogen clearance 374:91
– clearance method 380:85
– ion concentration 390:99
– – secretion 387:69
– – –, renal 375:39
– ions 386:239
–, locally generated 374:91
– pressure 374:91
Hydrolases release 379:297
Hydrolytic enzymes 377:147
Hydropenia 390:131
Hydrostatic hydraulic conductance 373:205
– indifferent point 383:195
– pressure 389:85
– –, fluid transfer 373:9
6-hydroxydopamine 371:271; 372:187; 390:17
Hydroxylase activity, acid 378:99
Hydroxyproline 375:233, 239
5-hydroxytryptamine 372:53; 375:183; 377:51, 109, 245; 383:257; 389:181
5-hydroxytryptophan 377:245
Hyoscine 381:75
Hyperaemia 379:223
Hypercapnia 374:39, 211; 375:229; 381:241; 390:63
–, experimental sustained 380:105
Hyperemia, brain cortex 378:47
–, exercise 387:231
Hyperexcitability, visual pathways 375:251
Hyperglycemia 384:39; 390:202
Hyperoncotic albumin 373:249
Hyperoxia 381:151; 390:63
Hyperoxic condition 378:231
Hyperpolarization 377:185
– activated current 385:11
–, evoked by stimulation of postganglionic parasympathetic nerve 383:75
Hyperpolarizing current pulses 378:1
Hypertension 378:189; 379:245; 389:301; 390:260
–, absence of 372:169
–, mesentery microcirculation 375:153
–, renal 380:133
–, spontaneous 389:29
Hypertensive rats 375:261; 379:187, 191; 384:183; 385:85; 390:256
Hyperthermia 372:115; 379:219; 384:253; 390:86
– in sheep 384:143
Hyperthyroid starved rat 386:47
Hyperthyroidism 372:23; 390:73
Hypertrophy, compensatory, renal 385:161
Hyperventilation 374:187; 378:65; 379:19
Hypo- and hyperthyroid starved rat 386:47
Hypobaric hypoxia 380:127
Hypocalcaemia 377:9; 374:249
Hypocapnic ventilation 389:181
Hypoglycaemia 387:121
Hypokalaemic rat muscle 379:215
Hypophosphataemia 371:33
Hypotension 371:193; 380:1; 384:261
Hypothalamic cooling 381:35,
– neurons 380:59
– obesity 390:1
– synaptosomes 385:79
– temperature 378:213, 227; 379:113; 387:99
Hypothalamus 371:279; 373:59; 374:15; 375:31; 376:177; 380:127; 385:79
– and pinal cord 374:179
–, blood flow control 372:157
–, local warming 378:55
– -pituitary-thyroid regulatory system 375:177
– -temperature regulation 382:255
Hypothermia 373:189; 377:245; 379:165, 219; 380:227; 382:87; 383:209; 385:105; 388:79
Hypothyroid rats 384:116; 390:186
Hypotonia 375:251
Hypotonic volume expansion 384:135
Hypovolaemia 371:193, 279; 384:261
– -induced vasopressin release 388:177
Hypoxaemia 388:197
Hypoxanthine 387:245
Hypoxanthine, in renal tissue 371:45
Hypoxemia 377:143
Hypoxia 371:279; 374:39, 211; 375:229, 251; 376:7, 35, 201; 379:53; 380:127; 381:1, 151, 241; 383:105; 384:109; 386:39, 71, 269; 389:61, 81, 243
– acclimation 385:155
– in mice 380:65
– on ventricular weights 385:155
Hypoxic newborns 389:61
Hysteresis 380:221

I

Ia afferents 372:131
Ideal alveolar-arterial O_2 pressure difference 380:35
Ile^5 angiotensin II 381:83
Ileal smooth muscle 389:75
Ileum 381:25; 387:115
– mucosal membrane 378:155
Iliofibularis muscle 375:207
Illumination intensity 376:241
Image analysis 381:11
– sensor 378:263; 388:261
Immature male rats 389:301
Immersion 374:115, 121; 383:189
– in thermo-neutral bath 374:119
Immobilisation at different muscle lengths 381:195
Immunization with acetylcholine receptor 390:156
Immunosympathectomy 390:256
Impedance 387:133; 389:105
– analysis 390:290
In vitro perfused medullary thick ascending limb 383:215
– – perfusion 389:177
– – –, loop of Henle 378:15
– – rats pineals 373:209
In vivo glucose turnover 386:47
– – kidney 382:63
– – measurement of plasma ionized calcium 384:105
– – sac technique, colon 388:165
Inactin 373:139; 381:165
Inactivation 371:61
– dependent relaxation 390:175
– of slow channels 380:19
Indirect Fick principle for CO_2 385:21
Indocyanine green 379:59; 387:175
Indomethacin 376:67; 378:223
–, furosemide antagonism 372:215
Induction angiometer 377:117
– of action potential 372:17
– of Na-K-ATPase 372:83
Inductive low frequency impedances 389:105
Inert gas clearance 384:75
– – techniques 375:213
– gases 371:227; 375:161; 384:131
Infarction, myocardial 376:209
Inferior olive 383:137
Inflation of lungs 389:181
Infrared-spectrometric determination of D_2O 385:71
Ingestion of ^{13}C-glucose 382:197
Inhalation of CO_2 378:231
Inhibition 386:29
– by vinblastine 385:79
– of Na-K Pump 377:209
– of prostaglandin synthesis 379:269
– on hydrogen ion and potassium secretion 386:161
–, spinal reflex activity 371:271
Inhibitors of slow calcium current 377:167
Inhibitory action of Ca^{2+} on spontaneous transmitter release 386:29
–, innervation, gallbladder 377:43
– interactions 372:139
– membrane permeability 371:167
– nerves 381:75
– postsynaptic currents 371:167
– synaptic channels 387:143
– – current 376:151
Inhomogeneity of coronary bed 374:57
– of oxygen removal rate 373:145
Injured muscle fibres 389:17
Injury, cell 378:99
Inner ear investigations 388:191
– medulla of the rat kidney 373:153
Inophoresis, quantitative 390:156
Inorganic phosphate 374:193; 376:47; 382:123; 390:191
– – transport, renal 384:149
Inosine 372:29; 387:245
–, in renal tissue 371:45
– 5-monophosphate 374:193
Inositol hexaphosphate 377:135
– 1,3,4,5,6-pentaphosphate (IPP) 376:237
Inotropic effects of potassium rich solutions 390:237
– responses of the heart 386:199
– state 374:135
Input/output properties 390:290
Insect fibrillar muscle 382:155
Insoluble gases 384:267
Inspiratory and expiratory NAA-neurones 380:245
– duration (T_I) 379:53
– neurons 372:7
Instruments and techniques lateral effect photodiode 374:97

– – –, P_{CO_2}, miniature electrode 373:269
Insulin 375:197; 389:115
– release 373:237; 378:93; 383:41, 123; 388:249
– secretion 390:17
–, ^3H 375:9
Insulinotropic effect of glucose 383:123
Intensity of shivering 384:261
Interaction of respiratory drives 374:211
Intercalated disks 378:1
Intercapillary distance 376:209
Intercellular communication in mammalian cardiac fibres 380:267
– coupling 376:159
– space 375:69
Interganglionic fibre tracts 374:265
Intermediolateral column 375:289
Internal Ca^{2+} stores 379:259
– desynchronization 381:119
– stores of calcium 381:63
Internodes 390:288
Interspike interval distributions 383:1
Intervillous space 377:225
Intestinal adaptation 372:83, 91
– basic electrical rhythm patterns 376:259
– brush-border 389:69
– enzymes 373:133
– ion transport 379:237
– membrane vesicles, Ca^{2+} binding 389:69
– motility 376:259; 381:75
– NaCl transport 379:229
– perfusion parameters 378:71
– sodium transport 382:35
– spike bursts recognition 381:15
– sugar transport kinetics 389:155
– transport 373:205
– –, effect of K1 379:19
– – of phosphate 381:217
– vasodilator 386:281
– water absorption 388:165
Intestine 373:243; 378:161; 383:55; 385:143
–, colon mucosa 376:245
Intra-aortic catheter tip balloon 383:47
– – decrease 386:97
– -arterial pH measurement 386:95
Intracapillary HbO_2 saturation 374:57
Intracarotid injections 374:205
Intracellular calcium 371:61; 379:37; 384:183; 386:29
– – concentration 385:37
– – distribution 385:85; 388:89
– – in urinary acidification 381:107
– – pool 390:256
– Ca^{2+} 377:185
– Ca^{2+} concentration 371:71, 77
– Cl activity 382:193
– EGTA injection 386:147
– electrical potential 371:109
– electrolyte concentrations 385:1
– impalement 380:91; 384:69
– impedance measurements 378:141
– injection 380:277
– – of Ca^{2+} 371:51; 377:185
– ion substitution 390:102
– K^+ activity 378:37
– measurements 385:181
– membrane potential 390:296
– microelectrodes 377:147; 378:111
– Na activity 377:209
– non bicarbonate buffers 376:251
– pH 377:33; 386:121
– pH changes 380:105
– potassium activity 383:99; 388:169
– recording 378:107
– recordings 380:245
– resistance 371:135
– resting potential, cochlea 373:77
– sodium activity 384:189
Intracellularly injected neuraminidase 385:45
Intracerebroventricular (ivt) injection of angiotensin II 373:167
– microperfusion 387:99
– osmosensitivity 387:1
Intrahypothalamic injection 377:51
– injections 390:219
Intralaminar thalamic area 376:119
Intraluminal ion concentrations 387:61
– pressure 371:235
– – sensing balloons 379:303
Intramural nerves of the lymphatics 388:221
Intraportal infusions 390:270
– – of glucagon 378:135
Intrarenal blood flow distribution 376:67; 382:233; 390:44
– functional heterogeneity 371:39
– haematocrit 373:153
– microsphere distribution 376:67
Intraspinal microinjections 371:271; 377:109
– microstimulation 379:143
Intrasplenic oxyhaemoglobin saturation 379:109
– red cell sequestration 379:109
Intrathoracic circulatory compartment 374:121
Intratubular glucose concentration 384:39
– stop flow pressure 386:11
Intravascular heat exchanger 374:179
– heat exchanger (IVHE) 373:259
Intravital microscopy 378:9
Inulin 373:229
– clearance 380:233
– efflux from cortical slices 388:29
–, ^3H 374:243; 375:9; 377:101
– recovery 372:251
Invertebrate synapse 371:167
Inward calcium current 390:102
– current activated during hyperpolarization 385:11
– -going rectification 384:207
Iodoprotein 27S 372:145
Iodoproteins 372:145
Ion exchange resin microelectrode, K 376:139
– -exchanger 390:96
– permeability 379:287
– selective microelectrodes 372:207
– transport, intestinal 379:237
Ionic channels 375:219; 381:255
– compositon 376:131
– conductance channels 380:71
– currents in cardiac Purkinje fibers 375:45
– – in pacemaker cell 385:11
– dependence of membrane potential 376:159
– environment 382:145
– interaction 374:67
Ionized calcium 384:105
Ionophore A 23187 379:37; 381:107; 388:217
–, Ca^{2+} 371:119
Ionophoresis 389:283
Ions, effect on cerebral isorenin 373:15
Ion-selective electrodes 387:231
– – microelectrode 378:37
– -sensitive microelectrodes 378:47
IPSP 374:265
Iron, in plasma 389:175
Irritant-induced tachypnoea 386:231
Ischaemia 379:209; 381:159
–, cerebral 389:1
–, effect on enzyme-activities 379:203
–, renal 371:45
Ischaemic acute renal failure 373:69
– brain damage 378:189
Isethionate 381:171; 388:249
Islets of Langerhans 378:93; 381:281
3-isobutyl-1-methylxanthin 374:229
Isobutyrate 379:121
Isolated brush border vesicles 373:243
– carp retina 375:53, 61
– cells 389:263
– cornea, human 373:179
– dog kidneys 382:217
– epididymal fat cells 381:113
– epithelium, frog skin 371:201
– fibrillating canine heart 380:211
– frog semicircular canal 388:93
– – skin 371:211; 379:71
– gallbladder 373:9
– guinea-pig aorta 390:107
– – – placenta 390:80
– heart fibres 389:199
– –, guinea pig 372:29
– islets 373:237; 375:197
– lung cells 371:19
– membranes, toad skin 385:181
– pancreatic islets 383:123
– papilla, renal 373:99
– papillary muscle 383:185
– perfused guinea pig heart 380:259
– – hindlimbs 374:187
– – kidney 389:251
– – liver 372:275
– – rabbit tubule 390:38
– – rat heart 385:105
– – rat kidney 377:81; 383:71
– placenta, guinea pig 371:251
– proximal tubular 375:9
– rabbit kidney 388:29
– rat heart 382:57
– red diaphragm 376:251
– renal tubules 389:177
– segments of rat colon and rectum 378:71
– sheep Purkinje fibres 379:137
– skeletal muscles 383:87
– thick ascending segment of loop of Henle 378:15
Isometric contraction 373:211; 378:31; 388:221; 389:277
– –, cardiac muscle 373:31
– contractions 384:123; 387:33; 390:164
– exercise 387:33
– force-time characteristics 375:141
– ramp and hold contraction 389:55
– tension 373:21; 375:111; 377:147; 387:167; 390:198

Isometric tension development 382:165
– tetanus 381:71
Isomyosins 390:246
Isoprenaline 377:65
–, parotic secretion 372:231
Isoproterenol 373:99; 374:229; 376:223; 377:81; 380:19; 389:21, 29; 390:5, 49
– stimulation 373:209
Isorenin secretion, brain 373:15
Isotonic contractions 384:123
– saline loading 373:139
– water absorption, ileum 373:205
Isovolemic hemodilution 386:111

J

Jejunal brush border hydrolases 379:297
Jejunal perfusion 379:297
Jejunum 373:133; 382:35; 390:202
–, electrolyte and water absorption 373:249
– in vitro 385:137
Juxtaglomerular apparatus 375:105
– renin activity 375:261; 380:233
Juxtamedullary glomerular filtration 389:131
– nephron terminal segments 387:17
– proximal tubules 373:229

K

K^+ activity 378:37, 47; 388:101
K^+ balance 387:231
K channel 387:9
K^+ concentration changes 382:189
K conductance 379:89; 390:207
K depolarization 376:21
K^+ deprivation 385:217
K efflux 376:159
K efflux through inward rectifying K channels 384:207
K flux 384:207
K influx 383:143
K^+ microelectrodes 382:203
K^+ permeability 378:111
K pool, pancreatic islets 373:237
K^-, Rb-uptake 390:250
K rectifier 387:207
K^+ specific microelectrodes 372:207
K transport, renal 373:113, 125
Kaliuresis 374:199
Kallikrein-like activity 389:91
Kappagoda/Linden "open-circuit" system 380:197
Katz-Miledi model 389:283
K/Ca exchange 390:237
K-channel gating 374:289
KCl-Ringer 389:105
KCl 390:96
K-conductance 386:21
K-dependent hyperpolarization 386:251
K^+-efflux 387:225
Ketamine 382:51; 383:249
K-free solution on tension development 389:189
Kidney 373:69, 113, 145, 161; 375:131; 382:123; 387:127; 390:30, 38, 131
–, acidification 375:39; 381:107, 137
–, acute failure 380:233
–, – renal failure 379:11
–, ADH effects 383:215
– alloperfusion 373:153
–, amino acid transport 382:109, 115; 387:253
–, and angiotensin II 374:199
–, antidiuretic response 374:229
–, autoregulation 382:99; 385:253
–, autotransplantation 371:9
–, basic protein transport 390:211
–, bicarbonate absorption 388:159
–, biopterin synthesis 375:9
–, blood flow 374:105; 379:81; 381:165; 382:233; 383:233
–, – – autoregulation 382:91
– capsule 374:243
–, Ca^{2+} and Mg^{2+} transport 386:59
–, Ca^{2+} reabsorption 374:153
–, cell culture 382:209
–, chronical renal failure 376:193
–, compensatory hypertrophy 385:161
– cortex, flow autooscillations 383:223
–, counter current system 378:15
–, diluting segment 383:113
–, distal acidification 377:229
– distal cortical tubule 378:71
– failure 372:275
– function 373:49, 105
– –, Ca^{2+} transport 374:255
– –, conscious dog 389:9
–, – in hypothyroidism 384:116
– –, in vitro 371:9
– –, in vivo 371:9
– –, indomethacin 372:215
– –, oxalate transport 374:243
–, GFR regulation 388:211
– glomerulus 384:9
–, HCO_3-transport 386:239
–, hydrostatic pressures 389:251
–, intrarenal blood flow distribution 376:67
–, isolated collecting tubules 373:125
–, –, renin release 377:81
–, lithium effects 377:69
–, – transport 380:159
–, loop of Henle function 378:15; 382:7
–, magnesium handling 377:95
–, metabolism 379:95
–, Mg handling by papilla 373:229
–, micropuncture study 372:239
– model of uremia 389:131
–, Na reabsorption 379:49
–, Na^+-K^+-ATPase 381:127
–, natriuretic factor 382:73
– necturus 381:231
–, nephron heterogeneity 371:39
–, nerve activity 389:85
– perfusion 388:29
– – pressure 379:81
–, peritubular capillary diameter 371:245
–, phosphate reabsorption 385:189; 387:27
–, phosphate transport 372:269; 375:97; 377:9, 33; 379:37; 384:149; 388:185
–, postprandial natriuresis 381:143
–, PO_4 reabsorption 374:249
–, protein handling 375:269
–, proximal and distal tubules 372:239
–, – disaccharide transport 371:141
–, – pH 387:69
– – tubular cells 378:37
–, – – compliance 382:179
–, ^{86}Rb extraction 390:216
–, renin content 375:105
–, saline infusion 374:23
–, sodium excretion 373:139; 384:171
–, – –, regulation of 390:125
–, sulfate transport 383:159
–, tissue concentration 371:45
–, total CO_2 reabsorption 389:45
–, transplanted 378:223
–, transtubular permeability 383:165
–, tubular function 371:235
–, tubule, phosphate transport 380:47
–, tubuloglomerular feedback 375:261; 379:269; 381:99; 387:39
–, urate transport 383:203
Kinetics of the potassium channel 386:101
K-permeability in islet cells 383:123
Krogh's diffusion coefficient 374:125
Krogh's diffusion constant 372:37
^{85}Krypton clearance 386:77
K^+-selective microelectrodes 383:99
K-specific microelectrodes 372:207
K-stimulated ^{45}Ca efflux 381:63
Kyoto-Wistar (NKWR) rats 390:256

L

Lacrimal gland 377:185; 382:275
Lactate 374:193; 376:35, 251; 379:43; 387:245; 388:83, 129; 389:277
– carrier 390:80
– dehydrogenase 386:71
– formation 377:1
– – enthalpy 389:257
– production 387:73
– removal 380:205
– /pyruvate ratio 389:81
Lactic acid diffusion 385:143
– – transport, placenta 385:229
Lactose, tubular reabsorption 371:141
(L)-adrenaline 379:29
Lagena 372:139
L-alanine 382:109
L-alanine-amino acid interactions 386:153
L-amino acids 386:153
Langerhans islets 373:237
Lanthanum 372:63; 379:71; 380:19; 389:69
– -nondisplaceable $^{45}Ca^{2+}$ uptake 378:93
Large-field visual pattern 384:31
– intestine, epithelial transport 378:71
Laryngeal nerve 389:181
Laser differaction pattern 390:70
– diffraction pattern 379:101
L-aspartate 382:109
Lateral geniculate nucleus 375:251
– -line organ of Xenopus laevis 375:167
– nasal gland 372:115
– vestibular nucleus (LVN) 381:87, 179
Lateralization 381:39
Laying hen 390:86
L-Dopa 381:47
Leaky epithelia 379:287
Lean body weight 375:147
Left arterial pressure 384:171
– atrial distension 390:44
– – pressure 389:9
– atrium, ventricle 372:53
– -handed subjects 381:39
– -shifted blood oxygen dissociation curve 376:201
– ventricle 372:187; 374:135; 379:251
Legs, local warming 378:55
Length-tension relation 378:25
– – relationship 374:73
Leucine amino peptidase (LA) 373:133
Levator ani muscle 371:3

Lewis lung mouse carcinoma 373:145
L-Histidine 389:137
Lidocaine 387:47
– base 379:89
Light 376:241
– diffraction 374:97
– -emitting diode 382:279
– -induced responses 375:53, 61
– – ^{86}Rb release 387:225
– stimulation, optic system 372:165
– stimuli 375:251
Limb immobilisation 381:195
– movement, influence on lymph 371:25
– –, passive 371:25
Limbic system 375:31
Linear positioning task 381:39
Lingual nerve 382:1; 386:1
Linked carbamates 378:197
Lipid metabolism 382:197
– stores, liver 374:3
Lipids 382:105
Lipolysis 384:159
Lipolytic agents 384:183
Lipolytically active adipose tissue 390:169
Lipoprotein lipase activity 382:105
Liquid ion-exchanger 390:96
– junction potential 382:281
– K^+-exchanger resin 378:37
Lithium 377:69; 381:209; 390:30
– in nanoliter samples 380:159
– transport 380:159
Liver blood flow 381:151; 384:75
– circulation 378:135
–, isolated perfused 372:275
– mitochondrial-α-glycerophosphate dehydrogenase 389:195
–, perfusion 376:1
– receptors 390:270
Lizard 373:77
Lizards 377:189
L-lactate 388:11; 390:80
(L) noradrenaline 379:29
Load-enthalpy relations 379:173
– -insensitive relaxation 390:175
Local application of amino acids 375:53
– – of Ca^{2+}-chelator 375:61
– chemical factors 382:203
– cold stimulus 388:17
– tissue pO_2 387:121
Locally applied chemicals 375:53, 61
Location of stretch receptors 386:231
Locomotor activity 376:241
Long-lasting discharge, postganglionic neurones 376:15
– -sacromere fibres of crayfish 387:281
– vibrotactile stimuli 384:167
Loop of Henle 373:69, 229; 374:153; 377:95; 379:11; 380:159; 381:99; 384:61; 386:11, 59; 387:17; 390:38
– – –, functional differentiation 378:15
Lorentzian component in I_α noise spectrum 390:22
– curves 381:255
Low impedance ion selective microelectrode 382:189
– molecular weight protein 390:211
– Na^+ diet 379:49
– -Na solution 390:107
– pressure system 383:195; 384:171
– temperature (22° C) 390:30
– temperatures 390:54
– threshold fibres (B) 374:145
Lower brainstem 379:291
– intestine 378:161; 379:229
L-proline reabsorption 382:115; 387:253
Lumbar sympathetic trunk 376:15
Lumbosacral cord 388:233
Luminal distension 378:71
Luminance 372:165; 376:81
– L_u 386:141
Luminant blood 376:27
Lung cells, isolated 371:19
– deflation, vagal 372:1
– electroplethysmography 382:171
– inflation 386:199
– model 384:267
– perfusion 375:213
Luteinizing hormone releasing hormone (LHRH) 385:79
Lymph composition 371:25
– flow 378:121
– –, thoracic duct 371:25
– protein composition 378:121
– vessels 388:261
Lymphatic smooth muscle 388:221
– – muscles 375:183
Lysolecithin 373:39
–, erythrocytes 373:43
Lysosomes (enzymology) 389:17

M

Macula densa 375:105; 379:11
– – function 373:69
Macular 384:193
– receptors 381:179
– vestibular input 381:87; 385:95
Magnesium 372:63
–, acetylcholine release 377:57
– dependent contraction 382:133
– ions 382:155
– reabsorption, renal 386:59
–, synaptic transmission 371:125
– transport 373:229
– uptake, pancreatic islets 378:93
Maintenance of the hypertension 380:133
Malachite green 372:279
Malate dehydrogenase 378:99
Maleic acid 382:109
Maloxone 382:87
Maltase 371:141
– (MA) 373:133
Maltose, tubular reabsorption 371:141
Mammalian cardiac action potential 380:139
– -like thermosensitivity 379:291
– muscle 377:1
Mandibular and sublingual salivary glands 381:223
– gland 376:73
Manganese, parotic secretion 372:231
Manganum, acetylcholine release 377:57
–, rested state contraction 377:167
Mannitol 373:113; 383:165
– diuresis 373:153
Marcaine HCl 379:89
Mass-spectrometer 390:179
– spectrometry 375:25
Master's two step exercise 384:1
Maternal circulation 377:217
Maternofetal exchange 385:229
Maturation 390:219
– of small intestine function 373:205
Maximal exercise 390:179
Maximum oxygen consumption 388:83
McArdle's syndrome 373:211
Meal temperature, gastric function 384:65
Meander model of muscle 387:261
Measurement of tissue fluorescense and reflectance 385:167
Mecamylamine 379:125
Mechanical efficiency 377:1
– oscilloscope 383:173
– stimulation, gastric receptors 373:25
Mechanoreceptor 372:53
– function 377:189
Mechanoreceptors 373:25; 380:203
–, sensitivity of 388:111
Medial cortico-nuclear zone 385:95
Mediated transport 385:229
Medulla, dorsormedial and ventrolateral 376:139
– oblongata 371:125; 376:229; 379:19, 29; 381:241; 383:9; 387:189; 388:53
– –, ventral layer 371:125
Medullary chemoreceptors 374:39
– chemosensitive 379:125
– chemosensitivity 371:125; 376:229
– collecting duct 390:131
– hexosamine content 390:152
– respiratory neurones 376:139; 380:245
– respiratory neurons 372:7
Membrane activation of smooth muscle 390:296
– bound calcium 373:43
– – Na^+-K^+-ATPase protein 381:127
– calcium 371:263; 379:191; 385:85
–, Ca^{2+} distribution 372:259
–, channels 387:153
–, conductance 379:89; 383:249; 387:153
– current 374:79; 375:219; 379:137
– –, atrium 372:121
– – fluctuations 387:133
– currents 380:91
– depolarization 390:296
– electrical properties of vascular smooth muscle 378:111
– hyperpolarization 377:185
– lipids 382:27
– Na^+/K^+-ATPase 380:101
– permeabilities 381:231
– permeability 373:225
– –, erythrocytes 371:263
– potential 371:179; 375:75; 376:229; 378:205; 381:63; 382:263; 383:75; 386:127, 147, 153, 251, 261
– – changes 376:159
– –, crayfish muscle 371:167
– – duodenum 372:243
– – (MP) 388:101
– –, Purkinje fibres 384:189
– potentials 378:111
– properties 371:3; 386:21
– –, respiratory neurons 372:7
– resistance 376:159; 378:1; 383:87; 386:153, 261
– –, duodenal muscle 372:243
– SH-groups 388:69
– time constant 374:145
– transport, erythrocytes 375:87
– vesicles 380:47; 389:69; 390:191
Membranes of adipocytes 385:85

Menstrual cycle 390:56
Mental arithmetic 373:211
2-mercaptopropionic acid 388:177
Mercuric chloride kidneys 379:11
Mercury 385:117
Meromysin ATPase system 386:207
Mesenteric arterial strip 374:73
– lymphatics 375:183; 388:221
– vascular resistance 386:281
Mesentery 388:75
– microcirculation 375:153
– of rat 380:1
– potention 388:75
Metabolic acidosis 388:129; 389:199, 271
– alkalosis 389:271
– clearance rate of PTH 371:185
– exhaustion 374:289
– fuels during starvation 374:3
– inhibition, IAA, FAA, FDNB 376:97
– regulation of blood flow 372:103
– – of microcirculation 380:85
Metabolism 373:189; 380:197
–, arginine 372:275
–, myocardium 376:223
– of glycogen 377:251
– of muscle 379:203
–, oxidative, liver 376:1
Metabolite concentrations in blood, liver and skeletal muscle 374:9
Methacholine 390:49
Methandrostenelone 375:147
– administration 375:141
Methanesulfonylfluoride 386:67
Methods, continuous infusion 376:131
–, single injection 376:131
Metho-hexitone 383:249
Methoxamine 384:261
1-methyl lysergic acid 383:257
3-O-methyl-D-glucose 379:1
3-O-methyl-D-glucose (3-MG) 384:279
α-methyl-para-tyrosine (αMT) 380:127
Methylsulfate, and membrane current 372:121
Metopirone 385:25
Metoprolol 387:107
Mg adenosine triphosphate 376:55
Mg-ATP 382:165; 389:97
Mg deficiency 386:59
Mg^{2+}-deprivation 382:155
Mice, obese 385:193
Micro-Astrup 386:239
Microcalorimetry 390:224
Microcatheterization 390:131
– technique 373:113
Microcirculation 374:91; 380:85, 115; 381:25; 382:137; 383:29
–, coronary 373:219
–, mesentery 375:153
–, myocardium 374:57
– of the epimyocardial 378:9
Microconductivity measurements 385:29
Microdissected pancreatic islets 378:93
Microdissection 389:91
Microdroplets 390:54
Microelectrode 382:189
– measurement 371:87
– recording 378:259
– recordings 386:127
– resistance 378:107
– technique 371:109; 372:43, 103
– techniques 378:141
Microelectrodes 381:287
–, K^+ specific 372:207
Microflow and evoked potentials in the somatomotor cortex 380:85
– probe 383:223
– regulation 378:47
Microfluorescence photometry 385:167
Microgel electrophoresis 372:145
Microinfusion 374:153, 243
– studies, renal 379:37
Microinjection 371:51
– of Ca^{2+} 371:71, 77
–, pressure technique 371:61
– technique, renal tubules 371:39
– techniques 387:17
Microinjections, intraspinal 371:271
Microionophoresis 386:153
Microiontophoresis 371:51; 377:185
Microperfusion 374:243; 375:97; 381:99; 382:109, 115; 387:253; 389:137; 390:211
–, in vitro of isolated tubules 373:125
– of Henle's loops 384:57
– pipettes 376:191
–, rat kidney tubules 371:141
– studies 375:9
Micropheres 384:135
Micropipette tip etching 372:101
Micropipettes 381:255
Micropuncture 375:9, 39, 261, 269; 379:269; 381:83, 99; 382:109; 383:203; 384:39, 57, 61; 386:59, 239; 387:39; 388:185; 389:131, 137
– analysis 377:69; 380:159
– data 381:11
– of cat kidney 372:239
– of kidney 372:269
– technique 380:121; 384:69
–, thyroid follicle 372:145
Microreflectance photometry 385:167
Microrheology 390:278
Microsphere size 382:233
– technique 372:187; 376:67
Microspheres 372:157; 375:17; 378:55; 379:295; 382:91; 384:153; 390:44, 86, 216
–, radioactive plastic 376:87
–, radioactively labelled 385:193
Microtubules 387:269
Microvasculature 375:153
Microvessels 376:263
Midbrain temperature 379:113
Migrating myoelectric complex analysis 381:15
Milk secretion 383:241
Mineralocorticoid activity 381:143
Miniature electrode 373:269
– endplate potentials 382:127
– excitatory postsynaptic potentials 376:21
– plethysmograph 383:189, 195; 387:239
– stimulator for chronic animals 376:93
Minute rhythm 372:243
– ventilation 374:39
Mitochondria 389:195
–, cold exposure 377:181
Mitochondrial membrane proteins 390:120
– metabolism 390:120
– proton ATPase 388:217
– redox state 374:9
Mitral stenosis 389:9; 390:125
Mixture of distributions 373:283
Mobile anion carrier 375:87
Mock CSF 374:67, 205
Molluscan neurons 386:1
Molybdate 383:159
Monkey (*Macaca mulatta*) 371:193
Monoamine oxidase inhibitor 379:245
Monosynaptic forelimb reflexes 374:107
– reflex 388:149
– transmission 375:31
Morphine 379:143; 389:143
Morphology, respiratory neurons 372:7
Morphometry of brain capillaries 388:21
Mossy fibre (MF) 375:125
– fibres 371:147
Motilin 372:243
Motility 388:233
γ-motoneurons 372:195; 385:263; 388:101
–, spinal 377:255
Motor and sensory nerve fibres 387:9
– cortex 381:39
– execution potentials 389:55
– fibre 387:9
– nerve anaesthesia 379:89
– – terminal 386:29
– – terminals 380:145
– unit action potentials 387:33
– – discharge 390:164
Movement of HCO_3 in rat colon 379:43
Mucopolysaccharides 390:152
Mucosal lanthanum 379:71
– membrane 378:155
Mucous secretion, nasal gland 372:115
Multicompartment kinetic analysis 385:243
Multiparameter monitoring 371:175
Multi-sensor support 371:175
Muscarinic acetylcholine receptor 381:255
– action of acetylcholine 383:75
– receptor 377:193; 380:71; 386:101; 387:197
– response to ionophoretic acetylcholine application 389:283
– system 376:15
Muscle 374:193, 289; 379:89; 389:211; 390:224, 246
– activity 381:47
– – composition 381:195
– – types 381:195
–, anaerobic glycolysis 377:1
–, applied stretch 372:113
–, ATPase 380:101
– – activity 387:167
–, atrial 375:69
– biopsies 371:161
– blood flow 387:231; 390:44
– capillarity 386:39
–, capillary to fiber ratio in growth 380:153
–, cardiac 379:137
– cells 390:207
– chemosensitivity 377:147
– composition 386:39
–, contractile and histochemical properties 379:209
– contractility 375:141
– contraction 376:97; 377:255; 382:133; 386:207; 389:257, 277
–, crayfish 371:167
–, denervated 372:17
– differentiation 378:251
–, effect of CO_2/HCO_3 371:179
– efficiency 379:173
– enzymes 379:203, 301
– enzymology 378:99

– exercise 387:231
–, extrafusal 372:131
– fatigue 387:33
– fibre 375:219; 381:71
– – composition 381:195
– – cross section 385:223
– – diameter 376:209; 390:265
– – membrane 390:265
– – types 371:161; 383:181
– fibres 373:21; 374:97; 376:151; 379:157; 380:41, 205; 387:133, 281; 388:63; 390:161
– – at rest 379:101
– –, barnacle 374:31
– –, excitation-contraction coupling 380:181
– –, Na-rich 379:215
– –, sialic acid 380:171
– force, sarcomere length dependence 389:97
– glycogen depletion 379:105
–, heart, delayed outward current 377:235
–, intracellular+surface pH 386:121
– ischaemia 379:203, 209
–, isolated skeletal 383:87
– lipoprotein lipase 382:105
– metabolism 373:1, 211; 376:35; 379:203
–, miniature stimulator 376:93
– mitochondria 389:195
– models 390:113
–, Na^+ on activation of contraction 379:117
– overload 385:147
–, papillary 377:155; 382:281
–, paramyosin 379:197
– performance 373:211; 378:149
–, red and white 390:164
– relaxation 378:127
–, resting membrane potential 373:225
–, skeletal 390:250
–, slow Ca current 377:167
–, smooth, electrical properties 378:111
–, –, from stomach 382:145
– spindle endings 372:131
– – primary afferents 385:263
– spindles 374:159
–, stiffness 375:207
– –, sarcomere length dependence 389:97
–, testosterone effect 371:3
– -twitch 380:145
–, types 376:55; 379:301
– vibration 377:255; 385:263
– weights 375:147
Muscles 375:219
– (enzymology, pathology) 389:17
–, human 375:245
Muscular arteries 386:85
– contraction 374:277
– discharges 389:143
– exercise 388:83
Myasthenia gravis 380:145
– rat end-plates 390:156
Myelinated afferent fibres 374:159
– axons 386:21
– fibres 373:25
– nerve 375:75; 376:105; 390:230, 288
– – fibres 387:47
Myenteric plexus 374:265; 388:45
Myocardial adenine nucleotide biosynthesis 376:223
– fibres 375:111
– –, functionally skinned 380:29
– infarction 376:209
– ischaemia 388:197
– metabolism 380:211
– oxygen consumption 380:211, 259
– – extraction 372:181
– pyrimidine nucleotides 390:5
– reactive hyperaemia 379:223
– tissue PO_2 374:57
Myocardium 372:29, 187, 285; 377:119
– (enzymology) 389:17
Myofibrillar adenosine triphosphatase 375:245
– ATPase 386:207
Myofilament binding site 382:165
Myoglobin 372:221; 373:175; 386:39; 389:211; 390:211
– concentration 385:155
Myoinositol hexaphosphate (IHP) 389:219, 227
Myoplasmic cAMP 374:31
– Cl-concentration 374:219
Myosin ATPase activity 377:119
– – method 386:39
– light chain kinase 387:115
– – chains 378:251; 384:219; 390:198, 246
Myothermic technique 379:173

N

N. reticularis tegmenti pontis 384:19
Na and Ca transport 373:249
Na and Cl movement, smooth muscle 386:35
[Na], and Na-pump 379:215
Na-Ca exchange 375:69; 379:259; 390:237
Na-Ca exchange mechanism 389:189; 390:107
Na, cellular content (Aorta) 390:107
β-N-acetylglucosaminidase 378:99
Na channel 390:230
Na channels 382:43
NaCl transport 378:161
Na conductance 386:153
Na^+-conductance, luminal 371:87
Na content in vascular smooth muscles 389:189
Na coupled transport 373:243; 383:159; 387:127
Na^+-coupled transport 390:191
Na-current 372:43
Na current 382:27
NAD 376:35
Na^+ dependency 379:43
Na-dependent, carrier mediated phosphate transport 385:117
Na dependent depolarization 386:251
Na-dependent L-lactate transport 388:11
Na-dependent phosphate influx 388:227
NADH breakdown 387:167
NADH-fluorescence 385:167
Na efflux 374:31, 219; 378:155
$^{22}Na^+$ efflux from perifused islets 375:197
Na excretion, renal, postprandial 381:143
Na-Fluorescein 382:137
Na-free (tris-) Ringer's solution 383:87
Na-independent L-lactate transport 388:11
Na influx 376:159
Na^+ ions 387:61
Na^+ ions, twitch relaxation 379:259
Na-K exchange pump 371:201
Na-K pump 372:63; 377:209
Na K ATPase 386:161
Na-K-ATPase 372:83; 380:101; 390:250
Na-K-ATPase, erythrocytes 371:263
Na^+-K^+-ATPase protein 381:127
Na^+-K^+-Ouabain 375:197
Na-K-transport 390:224
Na^+-linked water absorption from isoosmotic perfusates 379:237
Na, low Na diet 379:229
Naloxone 389:143
Na-Na exchange 374:235
Na^+ permeability 378:111
Na pump 384:189
Na pump, frog skin 371:211
Na^+ reabsorption 379:49; 390:186
Nasal and lingual blood flow 382:255
– blood flow 372:115; 387:161
– cooling 372:115
– resistance 378:65
Na^+-sensitive glass microelectrode 377:209
Na^+ sensitive microelectrode 384:189
Nasotemporal stimulation in monocular condition 384:31
Na^+ stimulated short chain fatty acids absorption 379:43
Natori's method 389:97
Na transport 374:235; 378:15
Na^+-transport, necturus urinary bladder 371:87
Na transport, renal 373:113, 125
Na transport, renal proximal tubule 372:77
Natriuresis 372:215; 373:49; 374:199; 385:111
Natriuretic factor 382:73
n-butylbiguanide, diuretic effects 371:9
Neck and macular vestibular receptors 381:87
– input 381:87
– movement 371:155
Necturus gallbladder cells 371:109
– gallbladder epithelium 377:125
– urinary bladder 371:99
Negative capacitance amplifiers 378:141
– inotropic effect, thiopental 372:285
Nembutal 373:139
"NEN-TRAC" Microspheres 379:295
Neonatal ochiectomy 389:301
Neonate skeletal muscle 380:111
Neonates 389:175; 390:219
Neoplasms 373:145
Neostigmine 386:101; 389:283
Nephrectomy 372:275; 385:161
Nephron 371:235; 374:153; 377:101
– acidification 377:229
– anatomy 372:239
– differentiation 378:15
– epithelia 382:209; 384:203
– filtration rate 372:239; 373:69; 379:269
– flow rate 375:105
– function 373:113
– –, transport 380:159
–, GFR autoregulation 375:261
– heterogeneity 371:39
– Na-K-ATPase 384:203
– permeability 383:165
– plasma flow 388:211
– segments perfused in vitro 390:145
–, single injection 375:9
– terminal segments 387:17
Nephrotoxic acute renal failure 373:69
Nernst equation 373:225

Nerve block 383:67
– conduction 381:209
– fibres 387:9
– fractionation 390:265
– length 372:17
– membrane 376:21; 387:9; 390:230
–, miniature stimulator 376:93
– peptides 390:265
– stimulation 376:151; 390:1
– –, spleen 377:87
– –, splenic 388:37
– stump 372:17
– terminal 386:29
– terminals 377:117
Nervous outflow from skeletal muscle 374:159
Net glomerular capillary pressure 389:251
Neural aberrations 377:201
– control, pursuit eye movements 377:15
– dysfunction 377:201
– mechanism generating the P II component 375:53
– sensitivity loss 377:201
Neuraminidase 380:171; 385:45
– -treated muscles 380:181
Neurobiology 373:283
Neurogenic vascular tone 374:187
– vasomotoric reaction 382:171
Neurohormone 389:127
Neurohypophyseal hormones 371:211
Neurolept-anesthesia 381:293
Neuromuscular junction 376:151; 380:145; 386:67; 390:156
– transmission 380:145; 382:127; 386:85; 390:156
Neuron 383:1
Neuronal activity 371:125
– –, spontaneous 388:53
– damage occurring after severe hypoglycemia 387:121
– diameter spectra 388:239
– excitation 379:125
– input resistance 388:101
– release of [^{14}c]GABA 379:149
Neurones 375:31, 289
–, bulbo-spinal 371:271
–, inhibitory 377:43
– mediating optokinetic responses 386:221
–, postganglionic 371:217
–, respiratory 376:139
–, single auditory 380:7
Neurophysiology 374:265
–, amblyopia 377:201
Neurotransmitter 379:149
Neurotransmitters 372:203
Neurovegetative regulation 379:281
Neutral amino acids 375:53
Newborn 380:197
– and adult haemoglobin 389:227
Nexuses 380:165
NH_3 production by kidney cortex slices 379:95
NH_4Cl induced acidoses 379:95
Nickel, rested state contraction 377:167
Nicotine 379:19, 29
Nicotinic synapses 377:43
Nipple attachment 388:191
Nitrate 381:63
"Nitrogen sparing" 374:3
Node of Ranvier 376:105; 382:27; 387:47
N^2, O^2 dibutyryl guanosine 3′:5′-monophosphate 382:263
N^6,O^2-dibutyryl cyclic AMP 390:145
Nodose ganglia 389:181
– ganglion 373:25
Noise 390:290
– analysis 381:255; 387:133
– spectrum of the inhibitory chloride current 387:153
Non-bicarbonate buffers 376:251
– -cyclic variations 380:215
– -diuretic dextrorotatory isomer of ozolinone 384:61
– -electrolyte fluxes across gastric mucosa 387:269
– -hypotensive hemorrhage 379:81
– -invasive determination of lung perfusion 375:213
– – P_{O_2} monitoring 377:143
– -ionic diffusion 389:137
– -isolated ileum 373:205
– -linear properties 380:221
– -permeant solute 381:159
– -respiratory acidosis 375:257
– -shivering thermogenesis 373:189; 380:227; 385:25, 193; 390:224
– -steady-state oxygen transfer 384:231
Noradrenaline 373:99; 375:183; 377:51, 87; 378:135, 263; 379:125; 380:259; 381:25, 113; 382:269; 385:193; 386:85; 389:237
– (NA) 390:224
– release, Ca^{2+} 372:63
Noradrenergic neurones 381:47
Norepinephrine 372:187; 388:159
– (NE) 384:159
– turnover 380:127
Normocapnia 390:63
Normoxia 385:85
Nose 382:255
NREM sleep 388:143, 149
Nucleated and non-nucleated red blood cells 390:278
– erythrocytes 390:283
Nucleic acid content, cecum mucosa 372:91
5′-nucleotidase 387:245
Nucleotides 383:35; 390:5
Nucleus paragigantocellularis 378:231
– tractus solitarius 372:169
Null potential 376:159
Nutrition, parenteral 376:223
Nystatin 390:102

O

O_2 affinity 377:135
O_2 – P_{50} 382:57
O_2 consumption 379:109
O_2–, myocardial 372:181
O_2 –, of brain 372:175
O_2 diffusion 372:221
O_2 – model 374:57
O_2 –, tumour tissue 372:37
O_2 dissociation curve 384:109
O_2 pressure, end-tidal 372:289
O_2 saturation 376:237
Obese (fa/fa) zucker rat 390:10
– mouse 373:189
Obesity 380:227; 390:1
Occlusion plethysmography 382:241
– pressure 385:259
– – measurements 385:259
Octadecasilyl-silica 387:79
Octanoate action 383:87
Octanol 390:96
Oculomotor motoneurons 377:15
Oculomotricity 389:143
Oesophageal groove 373:25
– sphincter 373:25
Oesophagus 373:25
Oestrogens 375:239
Oleic acid 383:19
Olfactory cortex 383:249
– nerve 381:209
Oligomycin 388:217
Olive, inferior 383:137
On- and off-responses 375:75
On channel behaviour 381:271
On-line measuring device 376:263
On-off effect, mechanoreceptor 373:25
Ontogeny 372:149
– of transmural hydraulic permeability 373:205
Open-circuit method for estimation of oxygen consumption 380:197
– -close kinetics of fluctuating K^+ channels 390:22
Opening and closing of the ion channel 389:283
Opiate receptors 382:87
Optic generator potential 372:165
Optical fiber 378:263
Optically active isomers of ozolinone 384:61
– – – of the new diuretic drug ozolinone 384:57
Optokinetic responses 384:19, 31
– system 386:221
Organ blood flow 376:201; 379:295
– weights 375:147
Organic acid absorption in rat colon 379:43
– – secretion 374:243
– anion permeation 381:231
– anions 389:199
– cation 379:287
– phosphates 389:219, 227
Orienting 384:167
Oronasal breathing 378:65
Orthodromic response 374:145
Orthostasis 383:189, 195
Oscillating electrogenic Na-K pump 381:185
– receptor potential 386:1
Osmolal clearance 374:23
Osmolality 390:270
– of plasma, carotid body chemoreceptors 380:53
– on tension generation in smooth muscle 389:75
Osmolar clearance 384:135
Osmoregulation 374:23; 378:161, 213; 379:229; 387:99
–, bird 379:237
Osmosis 387:269
Osmotic behaviour 385:1
– – of toad skin epithelium 385:1
– compression 390:161
– diuresis 374:249; 378:213; 383:165
– hydraulic permeability 378:15
– pressure 373:15
– swelling of endothelial cells 388:243

Osteoporotic changes in bones 375:239
Otolith and canal inputs on nuclear vestibular neurons 385:123
– dynamics 385:123
Ouabain 373:9, 225; 374:235, 255; 376:159; 378:161, 243; 381:209; 383:55, 151; 385:131; 388:169; 389:263; 390:30, 38, 224, 250
– -insensitive Na efflux 374:31, 219
– on sodium transport across the rat placenta 381:79
– -poisoned fibers 374:31
–, renal function 371:9
– -sensitive channels 390:250
– sensitive transport current 378:243
Outflow pressure, placenta 371:251
Outward current 390:102
Ovariectomy 375:239
Oxidative enzymes 379:203
– metabolism 371:19
Oximetry 372:279; 373:273
Oxy- and deoxyhemoglobin 390:99
Oxydative phosphorylation 388:217
Oxygen 371:227; 374:125; 378:197; 390:99
– affinity 372:149, 287; 377:75; 383:209
– –, hemoglobin 376:237
– binding equilibria 389:227
– consumption 372:175; 373:273; 381:151; 382:225; 385:143; 386:215; 388:79, 83, 129, 217; 389:263
– – of brown adipose tissue 389:237
– delivery 382:57
– diffusion 372:221
– diffusivity 372:37
– dissociation 386:135
– – curve 376:7, 201
– extraction 376:1
– –, myocardium 372:181
– gas mixture 383:105
– -linked carbamates 386:135
– -linked hydrogen ion binding 390:99
– microelectrode 383:29
– partial pressure 388:137
– pressure, end-tidal 372:289
– –, intracerebral 375:25
– –, transcutaneous 377:143
– removal rate 373:145
– saturation 372:279; 373:273; 377:135; 386:135
– –, coronary venous 372:181
– –, monitoring in arterial blood 371:175
– solubility 384:231
– supply, myocardium 374:57
– – of the brain cortex 387:121
– tension, monitoring in arterial blood 371:175
– transfer 384:231
– transport 380:115; 384:109; 389:211
– – uptake 380:197
– uptake 376:41; 385:70; 387:73; 390:179
– –, myocardial 372:181
– –, training effect on 386:215
Oxygenation 376:7, 201
– of blood 376:27
– of human blood 386:135
– of layers of hemoglobin solutions 384:241
Oxyhaemoglobin dissociation curve 380:35
Oxylabile carbamate formation 377:135
Oxystat 372:289
Oxytocin 371:211; 390:299

P

Pacemaker activity 375:45; 382:17; 387:217
– depolarization 388:255
– potential 388:1
– –, Purkinje fibres 371:51
Pacemaking mechanism 382:17
P_{Aco_2} profile 389:243
PAH secretion 375:131
Pain 382:249
– producing substances 372:53
P-aminohippurate 374:243
Pancreas 372:69; 385:217
–, insulin release 375:197
–, venous and ductal pCO_2 380:121
Pancreatic acinar cells 385:131; 386:147, 153
– acini 380:277; 382:263
– blood flow 386:277
– β-cells 381:281
– islets 373:237; 381:289; 383:41, 123,; 388:249
– juice 383:19
– secretion 383:19
– secretory response to cholecystokinin-pancreozymin and caerulein 384:83
Pancreozymin 384:83
Panting 374:47; 377:51; 382:255; 385:269
Papaine 386:67
Papaverine 372:29; 375:25
–, erythrocyte deformability 373:43
Papilla of young rats 373:229
–, renal 373:99
Papillary collecting duct 379:49; 389:271
– muscle 375:111; 377:155, 167; 378:1; 379:173; 382:281; 383:185
– –, action potential 372:285
– –, energy output 373:31
Paraaminohippurate transport 387:127
Paracellular fluxes 374:235
– pathway 383:165; 385:29, 243
– pathways 379:287
– shunt 375:97; 377:125; 390:30
– – resistance 371:99
Parallel elastic elements, vascular smooth 378:25
Paralysis 383:67
Paramyosin 379:197
Parasympathetic control 390:262
– nerve endings 377:57
– nerve stimulation 380:71
Parasympathicus 373:25
Parathyroid hormone 371:185; 372:269; 373:249; 377:9; 385:189; 386:59; 388:185; 390:145
Parathyroidectomized rats 382:123
Parathyroidectomy 372:269; 375:97
– acid base influence, PO_4-transport 377:33
Parenteral nutrition 376:223
Paired tracer dilution 390:80
Parietal cortex 389:1
Parieto-occipital region 378:189
Parotic secretion, and Ca^{2+} 372:231
Parotid acinar cell membrane potential 389:127
– – cells 376:159
– gland slices 384:287
Pars recta function 371:235
Partition coefficient 384:131
Passive electrical properties, A-V node 371:135
Patient monitoring 371:175
Pattern vision 376:81
pCa 389:97
p-chlorophenylalanine 377:109
P_{co_2} 376:237; 384:109
P_{co_2} control 390:56
P_{co_2} micro-electrode 373:269
pCO_2 381:137; 386:187
pCO_2, arterial 381:241
pCO_2 surface electrode 381:289
pCO_2 microelectrode 380:121
4-pentenoic acid 385:111; 377:185
Pentobarbital 384:135; 389:143
– anaesthesia 376:131
Pentobarbitone 383:249
Pepsin 377:147
Peptide component of peripheral nerve 390:265
Perfluoradecalin 376:1
Perfluoro compound emulsion 376:1
Perfluorochemicals 387:175
Perfluortripropylamine 376:1
Perfusate temperature 383:79
Perfused rat pancreas 385:217
Perfusion pressure 382:91
Pericapillary distribution and clearance of Na-fluorescein 382:137
Pericardium 372:53
Perilymph 373:77; 388:93
–, cochlear 372:207
Periodic breathing 378:231
– changes of blood flow 382:63
– microflow pattern 383:223
Peripheral 390:265
– immunosympathectomy 390:256
– resistance 386:193
– respiratory chemosensors 375:257
– temperature 373:259
Perirenal adipose tissue 376:41
Peritubular capillaries 387:69
– membrane 381:231
Perivascular H^+ and K^+ activities 382:203
– microinfusion, pial arteries 374:
– nerves 387:17
– pH 372:103; 382:81
– PO_4 383:29
– space of small pial arteries 374:67
Permeability coefficient 389:137
–, water 373:99
PGA_2 373:125
PGE_2 373:125
PG endoperoxide synthetase 374:15
pH 375:45; 379:125; 384:109; 388:53; 389:199
pH_a 384:143
pH cathether 386:95
pH, cerebrospinal fluid 374:205
pH control 375:257
pH dependence 390:191
pH, extracellular, medulla 371:125
pH in CSF 375:257
pH in stationary droplets 386:239
pH, local in subarachnoidal space 372:103
pH measurement 386:95
pH, membrane potential 376:229
pH microelectrode 386:121
pH microelectrodes 382:81, 203

Pharmacological blockade 389:127
– denervation 384:1
– dilatation of coronary vessels 373:219
Phase transition 382:27
Phenobarbitone 383:249
Phenotalmine 382:81, 269
Phenothiazines 387:115
Phenoxybenzamine 372:115; 376:177; 379:223; 380:211
Phenoxylbenzamine 388:221
Phentolamine 373:99; 376:177; 377:43, 185; 381:75; 383:41; 387:197; 390:262
Pheripheral chemoreceptors 381:241
Phloretin 390:80, 299
Phlorizin 383:55
Phosphatase inhibition 376:47
Phosphate 384:105; 388:185; 390:145
– compounds 372:149
– content 374:277
– depletion 377:229
– diet 372:269
– effect 377:75
– loading 374:249; 377:9; 379:37
– reabsorption 374:249; 387:17
– –, renal 377:95
–, renal reabsorption 371:39
– transport 375:97; 377:33; 379:37; 380:47; 381:217; 384:149; 385:117; 390:191
– – in chick jejunum 381:217
– –, renal 372:269
Phosphaturia leads 374:249
Phosphocreatine 384:123
Phosphocreatine depleted rats 384:123
Phosphodiesterase 372:29; 384:183
Phosphoenolpyruvate carboxykinase (PEPCK) 379:95
Phospholipase C 377:147
5-phosphoribosyl-1-pyrophosphate 376:223
Phosphorus transport, renal 371:33
Phosphorylase activity 383:245
Phosphorylation 379:197
– of molluscan paramyosin 379:197
Photodiode 374:97
Photoelectric measurement of vessel diameter 385:239
– transducer 378:263
Photometry, thin layer 372:279
Photopic vision 373:199
Photoreceptor cells 387:225
Phrenic inspiratory discharge 379:53
– nerve 375:1
– – activity 379:181; 383:9
Physalaemin 376:73; 381:223
Physical exercise 382:105
– training 381:19
– workload 381:119
Physostigmine 379:29; 390:250
Pial arterial diameter 382:81, 203
– arteriolar resistance 372:103
– vessel, diameter changes 373:195
– vessels 374:67; 383:29
Pials arteries 386:187
Pickwickian or Ondine's curse syndrome 378:231
Picrotoxin 384:19; 385:51
Piezoelectric driver for cell puncture 384:69
Pigeon cerebellum 371:147
Pineal gland β-receptors 373:209
Pinocytosis, kidney 372:77
Piretanide 389:263
Pituitary gland, TSH 375:177
Placenta 371:251; 372:149; 377:217, 225; 385:229; 390:80
Placental O_2 transfer 376:169; 378:197
– transfer of THO, albumin, glucose 371:251
– transport 381:79
Plasma 376:131
– albumin 390:169
– membrane 375:197; 388:11
– –, Na flux 375:197
– – vesicles 378:87
– pH 386:97
– protein handling, rat kidney 375:269
– renin activity 371:279; 372:169; 373:161; 384:171; 385:211
– – – (PRA) 374:23
– skimming 373:153
– volume 374:285
Plateau potentials 382:17
Plethysmography 382:241
–, miniature 383:188, 195
Pneumatic cuff, implanted 379:81
Pneumothorax, upon thoracic duct flow 378:121
p-nitrophenylphosphatase 378:99
P_{o_2} 377:143; 388:137; 384:109
P_{o_2} decrease 372:175
P_{o_2} frequency distribution 374:57
pO_2 388:137
Polarization phenomena 389:105
Polarographic measurement of hydrogen pressure 374:91
Polyacrylamide gel electrophoresis 374:277
Polycythemia 384:109
Polyethylene glycol 372:91
Polyethylene-glycol 381:159
– –, dietary 372:83
Polyfructosan 372:239, 251
– clearance 381:165
Polymer rheology 390:113
Polypeptide enterohormones 376:73
Polysensory Purkinje cells 375:125
Polysynaptic excitatory and inhibitory effects 375:31
– reflex pathway 385:263
Polyurethanes 379:303
Polyvalent metal ions 390:22
Population sample 373:283
Portal circulation 374:23; 390:270
– injection, radioxenon 384:75
– vein 372:23; 378:25, 135; 381:151
– –, isometric contraction 378:31
– – occlusion 386:77
Portocaval anastomosis 386:77
Positive dynamic current 384:207
Posterior hypothalamus 373:59
Postganglionic neurones 371:217
– parasympathetic nerve endings 380:71
– sympathetic nerve 388:221
– vasoconstrictor neurones 376:15
Post-ischaemic normalization of K^+ 389:1
– – recirculation 371:45
Postmenopausal women, O_2 affinity of haemoglobin 372:287
Postnatal development 383:185
– ontogeny 373:205
Postocclusion hyperaemia 379:223
Postprandial volume regulation 381:143
Post-stress recovery, muscle 378:99
Postsynaptic action of glutamate 388:101
Post-tetanic potentiation 376:21
Postural mechanisms 374:107
Posture 374:121
– dog 374:131
Potassium accumulation 387:83
– activity 388:169
– –, intracellular, renal 378:37
– – ($[K^+]_e$) 375:229
– channel 374:79; 377:193; 381:263; 386:101
– concentration extracellular 373:225
– conductance 371:51, 71; 378:111; 379:157
– –, Purkinje fibres 371:77
Potassium current 381:271; 388:255
– –, ACh-induced 377:193
– – -voltage relationship 384:49
– deficiency 389:271
– deficient 379:215
– denervation 373:225
– flux pathways 390:250
– induced muscular contractures 379:1
– inflow, pancreatic islets 373:237
–, inhibition 379:1
–, insulin release 385:217
–, intracellular activity 383:99
– ions 390:237
– –, microelectrode measurement 382:189
– –, pumped movement 371:201
– permeability, Purkinje fibres 371:77
– pump 380:101
– secretion, renal 373:113
– -sensitive microelectrodes 375:229
– specific microelectrodes 372:207
– stimulation of taurine efflux 372:203
– transport ratio of axons 378:243
– uptake, pancreatic islets 378:93
Potential difference in collecting tubules 373:125
– profile 371:109
Predictor mechanism 377:15
Prednisolone 380:145
Pre-glomerular resistance vessels 381:99
Pregnancy 379:219
Preoptic area 389:297
– neurons 380:59
Pressor agents 380:13; 382:269
– response to angiotensins 380:13
– responses to angiotensins I and II 382:269
Pressoreceptors 379:81; 383:233; 386:193
Pressure diameter relationship 385:239
– -flow curves spiral artery 377:225
– -flow relationship 380:211
–, hydrostatic 373:9
– induced changes of renal vascular resistance 382:63
– injection 380:91
–, intratubular renal 371:235
–, left atrial 373:49
– -microinjection 375:53
–, outflow, in placenta 371:251
– relation 374:135
– -volume characteristics 374:121
– -volume work 380:259
Presynaptic excitability changes 379:143
– inhibition 379:143; 381:201
– nerve ending 385:45
Pretectum 384:19; 386:221

Primary auditory neurons 380:7
– muscle spindle endings 372:131
Probenecid 374:243; 388:249
Procaine 376:105; 378:1; 379:19
Procion yellow 372:7
Progesterone-induced hyperventilation 390:56
Prolonged hypothermia 383:209
Promethazine 387:115
Propionate 379:43
Propranolol 372:115; 377:43, 65; 378:149; 379:223; 382:269; 384:1; 387:197; 388:221; 390:262
Prostacyclin 374:15
Prostaglandin E_1 373:9
– $F_{2\alpha}$ 375:183
– synthesis 376:67
Prostaglandins 373:125; 378:223; 388:169
– E2 and $F_{2\alpha}$ 374:15
–, renal function 372:215
Prostigmine-treated neuromuscular junctions 380:145
Protection of renal function 381:159
Protein, biosynthesis, mitochondrial 377:181
– composition, lymph 371:25
– conformation 382:27
– content, cecum mucosa 372:91
– escape 378:127
– filtration 375:269; 384:9
– inhibitor of Walsh 374:219
– kinase 379:197; 390:198
– – inhibitor 374:31
– (metabolism) 389:17
– synthesis 384:155
– /DNA ratio 390:186
Proteins, contractile, regulatory 375:111
Proton transfer 385:229
Proximal convoluted tubule 371:141, 235; 388:159; 389:45
– – tubules 375:39; 383:113
– convolution 372:269; 377:33; 387:127
– – of the rat kidney 383:159
– ferrocyanide recovery 372:251
– jejunum in vitro 385:137
– nephron 374:243
– tubular cells 378:37
– – compliance 382:179
– – lysozyme reabsorption 390:211
– – pH 387:69
– – sodium reabsorption 381:83
– tubule 372:77; 380:159; 381:231; 382:109; 386:239; 388:185
– – function 377:69
– tubules 385:29, 189; 387:69
– – in hypothyroid rats 384:116
Pseudo random binary signals 390:290
Psychomotor behaviour 376:177
Psychophysical measurements 386:141
Psychophysics 372:165; 373:199; 383:173
PTH, anticalcuric effect 374:153
PTH, fragments 371:185
PTH, half life of disappearance 371:185
PTH, metabolism 371:185
PTH, radioimmunoassay 371:185
Pulmonary airway resistance 371:285
– arterial hypertension 386:269
– – pressure 374:131
– artery 372:53
– – strips 387:115
– blood distribution 374:115
– circulation 374:119
– dynamic compliance 371:285
– gas embolism 374:125, 131
– – exchange 380:35; 388:197
– perfusion 375:213
– stretch receptors 386:231; 390:63
– tissue volume 390:179
– vagal stretch receptor 379:53
Pulmonic circulation 385:65
Pulse train generator 376:93
Pump-oxygenator system 374:187
Purine ribonucleotide 383:35
Purinergic 377:43
– receptors 383:35
Purkinje cell layer 383:137
Purkinje cells 375:125; 380:79; 381:87
– –, spontaneous activity 371:147
Purkinje fibre 375:45; 379:137; 380:91; 383:143; 384:189, 207
– fibres 371:51, 71, 77; 377:209; 380:267; 382:17; 386:121; 387:207, 217; 388:169; 389:199; 390:102
– –, Ca^{2+} 371:61
– (P) cells 385:95
Pursuit eye movements 377:15
Putative purinergic receptors 383:35
Pyrazinamide 374:243
Pyrimidine nucleotides 390:5
Pyrogen 384:103
Pyruvate 376:251
– decarboxylation 380:259
– kinase 389:61
– – activity 375:189

Q

Q_{10} 377:119; 381:255
Quadriceps muscle 374:193
Quantal content 382:127
Quantitative morphometry of brain capillaries 388:21
Quick ramp-shaped shortenings 376:97
– shortening 376:97
– volume release 374:135; 379:251
Quiescent guinea-pig atria 380:71
Quinacrine 377:43
Quinidine 381:75

R

Radioactive microspheres 385:203
– tracer washout technique 376:41
Radioimmunoassay for adenosine 378:167
– for arginine-vasotocin (AVT) 387:91
–, PTH 371:185
–, TSH 375:177
Radioxenon washout 384:75
Raising phase of tetanus 381:71
Ranvier node 384:49
Rapid cooling contracture 384:99
– filtrations technique 373:243
– stretch 375:207
– transfer function measurements 390:290
Rat brain PO_2 388:21
– heart 385:273
– hepatocytes 386:245
– kidney cortex 383:223
– nephron, phosphate reabsorption 371:39
Rate of stimulation 377:155
^{86}Rb extraction 390:216
^{86}Rb release 387:225
Reabsorption mechanism of amino acids 382:109
– of L-proline 387:253
Reactive hyperaemia 388:193
– –, heart 379:223
Reactivity of blood pressure 380:133
Rebreathing and steady-state 390:179
Receptive field 385:51
β-receptor 373:209
Receptor, benzocaine+procaine 376:105
– mechanisms 386:1
–, muscarinic 383:75
– potential 388:93
– surface 375:53
– synthesis 385:37
– -receptor fibres 372:139
Receptors 375:219
–, α- and β- 372:231
–, acetylcholine 377:147
–, adrenergic and cholinergic 383:35
–, deflation 372:1
–, neck and macular vestibular 381:87
–, pancreatic acini 382:263
Reciprocal inhibition 380:245
Recirculation, renal 371:45
Reconstituted erythrocytes 371:263
Recovery 369:277
– exercise 380:205
– from ischaemia 379:209
Recruitment 382:57; 385:147
– of muscle fibres 379:105
Rectal gland 378:87
– motility 388:45
– temperature 369:171
Rectangular and trapezoid voltage pulses 377:235
Rectification 374:79
–, delayed, frog heart 377:235
–, inward going 383:143
Recto-rectal reflex 388:45
Rectum, transport 378:71
Recurrent inhibition 380:245
– inhibitory mechanism 383:91
Recycling of urea 390:138
Red and white muscles 390:164
– blood cell 371:263; 376:27
– – – rheology 380:115
– – cells 372:149, 259; 390:278, 283
– cell 373:153
– – deformability 373:39, 43; 388:75
– – enzyme activities 389:61
– – flexibility 383:229
– – flow velocity 380:1
– – ghosts 375:87
– – glycolysis 383:209
– – sequestration 379:109
– – volume 374:285
– cells 375:189; 376:169
– –, capillary velocity 375:153
Redistribution of blood flow 390:86
– of H^+, Cl^- and water, erythrocytes 376:27
Red/white skeletal muscle 378:99
Reference microelectrode 390:96
Reflex apnoea 389:181
– control of retractor bulbi muscle 389:143
– effects on human breathing 389:243
Regional blood flow 385:193; 389:237; 390:169
– – volume changes 382:171
– circulatory activity 372:157
Regulation of ion composition 390:270
– of respiration 381:241, 249
–, respiration and circulation 379:19

Regulatory non-shivering thermogenesis 390:224
– proteins 375:111
Reinduction of renal artery stenosis 380:133
Reinnervated rabbit soleus 384:219
Relacation-contraction cycle 383:257
Relaxation 377:193; 379:259
– measurement 376:151
– of acetylcholine-induced current 387:83
– of lymphatic smooth muscles 375:183
– of tetanized smooth muscle 390:175
REM sleep 388:143, 149
Remnant kidney 389:131
Renal accumulation of lysozyme 390:211
– acidification 375:39; 381:107, 137; 387:69
– amino acid transport 382:109
– anion permeation 381:231
– arterial strip 374:73
– artery clip 385:211
– – clipping 380:133
– – infusion 372:215
– – stenosis 380:133
– ATPase 381:127
– bicarbonate absorption 388:159
– – transport 389:271
– blood flow 371:45; 373:49; 374:105, 199; 379:81; 381:143, 165; 382:217, 233; 383:233; 384:57, 135; 387:107; 390:44, 216
– – – autoregulation 382:99
– – – distribution 376:67; 382:91
– – –, periodic changes 382:63
– brush border membrane vesicles 380:47; 384:149; 390:191
– calcium and magnesium reabsorption 386:59
– Ca^{2+} transport 374:255
– clearances 371:9
– collecting duct 379:49
– concentrating ability 374:229; 390:138
– – mechanism 379:11
– CO_2 reabsorption 389:45
– denervation 371:279
– d-glucose transport 384:39
– distal tubular segments 390:145
– electrolyte transport 377:69; 383:113
– – –, ozolinone 384:57
– electrolytes 371:33; 373:229
– failure 376:193
– filtration fraction 375:131
– function 372:215; 373:69; 374:23, 153; 375:261; 381:159; 384:135; 386:111; 390:138
– –, chronic renal failure 376:193
– –, conscious dog 389:9
– –, fish kidney 377:101
– –, glomerular 383:71
– growth 390:186
– haemodynamics 377:81; 389:85
– handling of L-histidine 389:137
– – of lithium 380:159
– H^+-Secretion 386:161
– hydrostatic pressures 389:251
– hypertension 379:187; 385:211
– hypertensive rats 380:133
– ischaemia 371:45
– kallikrein 389:91
– K^+-secretion 386:161
– magnesium transport 377:95
– medulla 373:113; 384:283; 389:263
– medullary circulation 373:153
– – hexosamine content 390:152
– Na reabsorption 371:9
– Na transport, natriuretic factor 382:73
– NaCl transport (Henle's loop) 390:38
– nerve activity 383:233; 389:85
– nerves 373:161
– oxalate transport 374:243
– papillae 373:105
– perfusion pressure 389:9
– – – (PP) 385:253
– phosphate reabsorption 371:39; 385:189; 387:17
– – transport 372:269; 377:9; 379:37; 380:47; 382:123
– PO_4 transport 374:249
– prostaglandins 379:269
– reabsorption of endogenous urate 383:203
– renin content 386:11
– sodium excretion 373:139; 385:91
– – –, regulation of 390:125
– – reabsorption 385:111; 390:186
– – transport 378:223
– sympathetic nerve stimulation 387:107
– transport 388:185
– –, diuretics 389:121
– – rate (T_{Na}) 384:39
– tubular acidification 377:229
– – acidosis 381:137
– – cell 378:37
– – function 382:7
– – leakage 372:251
– – transport 372:77
– tubule 371:141; 375:97, 269; 382:115; 383:159, 203; 387:127, 253; 389:137; 390:191
– – compliance 382:179
– –, PO_4-transport 377:33
– tubules 389:177
– tubuloglomerular feedback 387:39
– uptake of individual free fatty acids 385:111
– urea transport 390:131
– vascular adjustments 375:261
– – organization 390:138
– – resistance 373:49
–, water and NaCl transport 383:215
– – excretion 387:1
Renin 384:171
– activity 371:279; 385:211
– – in plasma 372:169
– –, renal 375:261
– angiotensin system 380:233; 388:211; 390:125
– contents 386:11
–, intrarenal 375:105
–, iso-renin-angiotensin system 373:15
– -like (angiotensinogenase) activity 377:65
– release 377:81; 387:107
– secretion 371:279; 373:161
Renomedullary antihypertensive activity 384:283
– dissection 384:283
Renshaw cells 377:255
Repetitive activation of preganglionic axons 376:15
– nerve firing 380:145
Reproductive system 390:86
Residual inner temperature 374:179
Resistance 377:185
–, cell membrane 371:99
– changes 386:153
– – in pancreatic acinar cells 386:147
–, coronary vessels 373:219
– profile 371:109
–, pulmonary 371:285
– (R_r) 390:30
–, transepithelial 383:55
Respiration 379:19, 29; 389:181
– control 389:243
–, gas embolism 374:131
–, regulation 379:53
Respiratory acidosis 378:85; 380:105
–, alkalosis 388:129
– centre 389:181
–, centres 381:249; 385:259
– chain metabolites 376:35
– chemosensitive structures 379:125
– chemosensitivity 379:29
– cycle duration 381:1
– depression, thiopentone 384:93
– drives, central 374:205, 211
– –, peripheral 374:205, 211
– evaporation 384:253
– exchange coefficient 376:41
– – ratios 386:215
– gas exchange 379:109
– gating 380:245
– load, tolerance of 378:65
– mechanics 371:285
– movement and lymph flow 378:121
– muscles 377:251
– neuron activity 383:9
– neurones 372:7; 376:139; 383:1
– oscillations 375:1
– pattern 381:1
"– pump", lymph 378:121
– quotient 380:197
– rate 374:39, 47
– response to somatic stimulation 388:143
Rest 376:35; 378:85; 390:179
Rested state contraction 377:167
Resting membrane potential 373:225; 380:111; 383:143
– – – axon 378:243
– metabolic rate 380:227
– potential 383:181
– –, atrium 372:121
– –, cochlea 373:77
– – of horizontal cells 375:53
– –, Purkinje fibres 371:51
– tension 387:261
Reticuloendothelial system 387:175; 388:69
Retina 375:251; 387:225; 388:239
Retinal ganglion cell layer 388:239
– – – responses 385:51
Retractor bulbi muscle 389:143
Retroambigual region 372:7
Reversed-tube breathing 389:243
Rheology 390:278, 283
–, red blood cells 380:115
–, – cell flexibility 383:229
Rhythm, day-night 380:215
–, diurnal 386:173, 181
– generation 380:245
–, minute 372:243
– patterns 376:259
Rhythmic activity of blood vessels 385:239

Rhythmical diameter changes 373:195
Rhythms, circadian activity 376:241
Ribonuclease 378:99
Ribose 376:223
Rickets, vitamin D resistant 371:33
Right-handed subjects 381:39
– ventricular hypertrophy 386:269
Rigor 373:21
RNA 390:5
RNA/DNA ratio 390:186
Roentgen-cinematography 374:119
Rostral brainstem cooling 387:99
Rubidium 374:289; 379:1; 390:30
– uptake, pancreatic islets 373:237
Rumen 373:25
Running intensities 386:215
Ruthenium red 374:255; 380:181

S

S-A node 389:283
Saccule 372:139
Sacral spinal cord 381:201
Sacromere length 387:261
Saline expansion 390:260
– infusion 374:23
– loading 378:127
Salinity adaptation 385:1
Salivary cooling 382:249
– duct electrolyte transport 376:73
– gland 386:251, 261; 389:127
– glands 381:223; 382:249
– secretion 372:231
Salmo gairdneri 377:101
Salt gland 378:213
– – secretion 387:1
– hypertension 384:283; 389:301
– loaded animals 380:233
– overload 384:283
– water homeostasis 390:270
Salvage pathways 376:223
Sampling circuit 379:101
1-sar, 8-ala angiotensin II 388:211
Saralasin 374:199
Sarcolemma 376:217
Sarcomere length 374:97; 379:101; 389:97
Sarcomeres in flow fibres 375:207
Sarcoplasmic reticulum 380:29; 385:37; 388:63
Saturation tension, O_2 372:287
Scala media potential 373:77
– tympani 380:7
Scalp recorded slow potential shifts 389:55
Sciatic nerve 390:265
Scope calibrator, high precision 378:259
Scrotal thermal afferents 380:59
Secondary active chloride transport 390:38
Secretagogue effect of dibutyryl cyclic AMP 372:69
Secretin 376:73; 383:19; 390:10
Secretion 372:69; 389:21, 29
–, epididymis 387:61
– of K^+ intestinal 379:237
–, parotid 372:231
Seizure 387:245
Seizures 382:81
Selectivity 379:157
– coefficient 384:9
– of the filtration process 384:9
Semicircular canal 388:93, 111, 123
Senescent and damaged cells 388:69
Sensescence 380:189
Sensilla 377:189
Sensitivity of mechanoreceptors 388:111
– to CO_2 381:249
Sensory 387:9
– fibre 387:9
– hair cells 375:167
Series elastic element 378:25
– elasticity 373:21; 378:25
Serotonin 377:51, 245; 379:29, 125; 382:87
– N-acetyl transferase (NAT) 373:209
Serotoninergic mechanism 382:87
Serum osmolality 374:23
Sex difference, heart rate 380:189
–, influence on Ca^{++} metabolism 375:233
Shape changes of muscle fiber cross sections 385:223
Shear forces 390:278
– stress 388:69
– –, erythrocytes 373:39
Sheep 373:25
Shivering 372:157, 195; 373:59, 259; 374:179; 380:215; 384:103, 261
Shock 374:105
Short range elasticity 387:261
– term body weight 389:171
Shortening deactivation 385:273
Shrinking droplet method 379:49
Shunt cuculation 388:197
Sialic acid 380:171
Sigh 372:1
Signal-to-noise ratio 390:290
Silent cells 376:229
– period 377:255
Silicone gum 380:283
Simulated altitudes 380:127
Single channel activity 389:293
– – conductance 381:255
– -dimensional cable model 378:1
– -lens reflex camera 388:261
– muscle fibre 379:101
– – – diameter 390:70
– myelinated nerve fibres 387:47
– nephron filtration 371:235
– – – fraction 385:253
– – – rate (SNGFR) 381:99
– – – rates 377:101
– – glomerular filtration rate 389:131
– – – – rate (SNGFR) 384:39
– – in rabbits 389:91
– sweep TV line scanning 379:101
– unit analysis 371:217
– – responses 375:31
Sino-atrial node 381:255, 263, 271; 386:101; 387:83; 388:1
– – – cell 372:43; 377:193; 385:11; 388:255
Sinusoidal stimulation 381:179
– stimulation of macular vestibular receptors 385:95
– tilt 385:95
SITS (4-acetamido-4'-isothiocycanatostilbene-2,2'-disulfonic acid) 389:271
Skeletal muscle 371:3, 179; 373:175, 225; 374:97, 167, 289; 376:97; 378:99; 380:101, 153; 381:53, 195; 382:105, 133, 193; 383:87, 245; 384:99, 123, 131; 386:121; 387:33, 261; 390:73, 224, 250
– –, adrenaline 373:1
– –, blood flow 373:211
– – capillarity 386:39
– – cell membrane 377:147
– – contraction models 386:207
– – cultures 385:37
– –, effects of denervation 380:111
– – fibres 379:157; 380:41; 390:161
– – performance 378:149
– muscles 389:17
Skin blood flow 375:17; 376:87; 378:55
– potentials 377:25
– –, hindpaw 371:217
– sympathetic activity 375:17
– temperature 374:47; 384:103
– –, γ-efferents 372:195
– vasodilatation 387:183
Skinned cardiac cells 376:217; 379:121
– fibre 388:63
– fibres 375:111; 380:29, 41; 381:53; 384:219; 386:207; 387:167
– – of smooth muscle 390:196
– muscle fibre 373:21
– – fibres 382:165
– – –, calcium activation 389:97
Sleep 388:143, 149
–, inducing peptide 376:119
– states in-utero 388:143
Sleeping and waking 382:225
Sloping alveolar plateau 384:267
Slow calcium channel block 385:175
– – current-inhibitors 377:167
– -channel-mediated action potential 372:285
– channels, atrium 380:19
– inward calcium current 390:102
– – current 372:43; 388:1, 255
– – –, Purkinje fibres 371:61
– muscle 375:207; 389:149
– – fibres 382:43
– rat muscles 384:99
– -release technique 383:67
– response 381:171
– skeletal muscle 379:209
– stretch 372:113
– twitch fibres 375:245; 376:35
– – muscle 379:301
– – muscles 390:164
– – skeletal muscle 390:73
– – (ST) fibre 380:205
– wave 382:145
– – activity 381:185
– – EEG 376:119
– waves 372:243
Small intestinal brush border 388:11
– intestine 373:205; 374:265; 376:259; 381:15, 25, 185; 382:67
– –, PO_4 influx 385:117
– strands of smooth muscle 380:165
– vessel blood content 383:105
Smooth, arterial 381:63
– muscle 372:23, 243; 374:67, 265; 377:87; 378:25; 380:165; 381:185; 384:177; 385:239; 386:35, 127; 387:115; 388:221; 389:75, 211; 390:175, 198
– – cell proliferates 387:73
– – cells 387:17; 390:207
– –, gastrointestinal 371:119
– – hypertrophy 375:153
– – of the circular layer 382:145
– – spasmogens 373:9
– – vascular 378:31
– muscles, lymphatic 375:183
– tone 390:113

Sodium 382:35; 385:117
– acetylsalicylate 379:165
–, cellular content (Aorta) 390:107
– channels 387:47
– –, node of Ranvier 376:105
– chloride 390:260
– – cotransport 378:87; 390:38
– – transport 378:161; 389:263
– clearance 384:135
– conductance 383:151
– contents of the diet 382:73
– coupled non-electrolyte transport 373:243
– current 372:43; 374:167; 379:137
– –, nerve and muscle membranes 382:27
– cyanate 376:7
– dependent glucose transport 382:35
– – transport system 382:35
– depletion 374:199
– deprivation 372:63
– efflux 374:31
– excretion 373:49, 139; 374:23; 377:9; 378:223; 382:217; 384:171; 389:9; 390:44
– – in conscious dogs 390:125
– –, renal 372:215
– extrusion 371:201
– induced calcium release 379:117
– intake 373:49
–, intra-extracellular distribution 377:209
– ion 385:137
– ions 387:225
– –, pumped movement 371:201
–, jejunum 381:185
– loading 374:199
–, low Na diet 379:229
– nitroprusside 371:119
– path, frog skin 379:71
– pathways in a "leaky" epithelium 379:287
– permeability 379:71
– –, erythrocytes 371:263
– –, rat skeletal muscle 373:225
– pump 371:201; 380:101; 386:71
– –, frog skin 371:211
– –, muscle 379:215
– reabsorption 379:49; 381:83; 385:189
– –, jejunum 373:249
– –, renal 373:113
– transport 372:77; 378:87; 382:123; 383:151; 385:181, 243; 390:202
– –, amphibian urinary bladder 371:99
– – cecum 372:83
– –, cornea 373:179
– –, frog skin 374:235
– –, placenta 381:79
– –, renal 385:181, 243
– –, – collecting tubules 373:125
– uptake into brushborder membrane 382:35
– –, pancreatic cells 385:131
– –, pancreatic islets 378:93
Soleus 375:245
– muscle 379:215; 388:63
– myosins 390:246
Solubility 375:161
– of inert gases 384:131
Solute-coupled water absorption 388:165
Soma diameter spectra for classical neurones 388:239
Somatic afferents 375:125
– stimulation 388:143
Somatomotor cortex 380:85
Somatosensory integration 371:155
Somatosympathetic reflexes 377:25
"Somnogenic" thalamic area of Hess 374:101
Space clamp quality 387:133
– constant 378:1
– –, A-V node 371:135
Spasmogens 373:9
Spatial distortion 377:201
Species differences, muscle metabolism 373:31
Speed of contraction 378:251
Spermine and basic amino acids 390:211
Spherings agents 373:43
Sphincter, oesophageal 373:25
Spike duration 386:21
– potentials 386:21
Spiking activity 381:15
Spinal cats 372:195
– cord 374:179; 388:45, 101
– – cooling and warming 381:47
– –, local warming 378:55
– – roots 390:265
– – temperature 378:227; 380:215
– – warming and cooling 386:181
– monosynaptic reflexes 374:107
– motoneurones 377:255
– motoneurons 388:101
– reflex loop 372:131
– shock 377:25
– sympathetic activity 371:271
– thermal stimulation 388:233
– thermosensitivity 386:181
Spinalized pigeons 381:47
Splanchnic nerve 380:203
Spleen 379:109; 388:69
–, cooling on smooth muscle response 377:87
Splenic arterial blood flow 377:87
– capsular response 377:87
– hypertrophy 380:65
– microcirculation 388:37
– vascular response 377:87
– venous pressure elevation 388:37
Split-drop micropuncture data 381:11
Spontaneous ACh release 386:29
– activity, *medulla oblongata* 371:125
– –, respiratory neurones 376:139
– discharge 387:55
– hypertension 379:187, 191
– hypertensive rats (SHR) 375:261
– neuronal activity 388:53
Spontaneously hypertensive rat 381:19; 389:29
– – rats 384:183; 385:85; 390:256
Spread of dorsal root potentials 381:201
Sr^{2+}-activated tension 381:53
Stagnant blood 388:243
Staining of PO_2 microelectrodes 388:21
Staircase phenomenon 378:31
Starvation 374:3, 9
Static and dynamic discharge patterns 386:1
– discharge 382:1
Statistical method 373:283
Steady-state charge distribution 375:75
– – exercise 385:21
– – membrane current 371:71
Steal-phenomenon 373:219
Stefan's equations 371:227
Stem compensation of loop sensors 386:93
Step function input of indicator 373:153
Stereology 387:281
Stereospecifity 384:57, 61
Stevens power function 372:165; 386:141
Sticking probability constant 386:245
Stiffness 374:135
–, immediate 373:21
Stimulant-evoked membrane potential 386:147
Stimulation cervical vagus nerve 375:119
– of macular vestibular receptors 385:95
– of sodium transport 381:83
– of the contralateral forepaw 380:85
Stimulator 376:93
Stimulus interaction 374:211
– response curves 383:47
– -permeability coupling 386:147
– -secretion coupling 373:237; 375:197; 383:123; 385:217; 388:249
Stomach 371:119; 373:25; 382:145; 386:127
Stop-flow pressure 381:99
Strain differences 371:39
Stratum cellulare externum, SCE 375:31
– – internum (SCI) 375:31
Strength 389:149
– -duration curves, heart 376:217
Streptomycin action 388:93
Streptozocin-induced diabetes 386:245
Stress-area relation 379:173
– emotional 373:211
Stretch 374:73
–, muscle 372:113
– receptor activity 386:231
– receptors 377:255
Striated muscle 376:55; 386:39
– – blood flow 390:44
Striatum 380:127
Strontium 383:123
–, acetylcholine release 377:57
Strophanthidin 377:209
Structural requirements for enzyme activation 389:21
Structure-function relationship 390:138
Strychnine 385:51
Subcutaneous adipose tissue 376:41
Submaxillary gland 386:261
– – acini 386:251
Submaximal and maximal exercise 390:179
– exercise 389:17
– isometric contraction 390:164
Subpopulations 373:283
Substance P 389:127
Substance P 385:131; 386:281
Substantia gelatinosa 381:201
Substrate utilization 382:197
Substructure 381:127
Succinate 379:43
Succinylcholine 387:197
Sucrase (SA) 373:133
Sucrose 388:249
– gap 377:235; 390:237
– – technique 386:127
– – voltage clamp 374:79
–, tubular reabsorption 371:141
Sudomotor innervation 377:25
– neurones 371:217
Sugar transport 373:243; 379:1; 384:279
– – kinetics 389:155

Sulphate 375:87; 381:171, 209; 382:217
– reabsorption 383:159
– transport 387:127
Sum potentials 375:251
Superficial nephron function 382:99
Superfused cerebellar cortex 372:203
Superior cervical ganglion 374:145
Supraspinal centre 388:45
– structures 374:187
Surface charge due 380:171
– charges 375:45; 380:181
– electrogram 380:139
– membrane 390:250
– membranes 387:281
– pCO_2 289; 381
– pH 386:121
– pH-measurements, small bowel 385:137
Sweat glands 377:25, 65
Swimming 385:65
– exercise 381:19
Sylgard 389:177
Sylgard seal 382:7
Sympathectomy 383:79; 390:17
–, regional myocardial 372:187
Sympathetic activity 371:271; 375:17; 388:45; 390:262
– cholinergic vasodilatation 383:245
– coronary control 372:187
– ganglion cell 378:205
– – cells 374:145; 376:21
– influence 383:79
– innervation of the hindpaws 377:25
– nerve activity 375:17; 377:109; 389:85
– – fibres 372:53
– nerves 386:199; 388:45
– nervous system 378:189
– preganglionic neurones 383:91
Sympathic nerve activity 383:233
Sympathomimetic drugs 375:25
Synaptic channel kinetics 376:151
– delay 382:127
– input 372:7; 374:145
– interconnection 380:245
– membrane channels 387:143
– transmission 371:125; 376:139; 388:93
– – by GABA 387:143
– – failure 385:45
Synaptosomes 385:79
Synchronization 376:139
Synchronous ventilation 384:267
Systematic application of picrotoxin 384:19
Systemic blood pressure 372:95
– capacitance vessels 374:119
– hypoxia 381:151

T

Tachycardia 376:177; 388:193
Tachycardie 381:293
Tachykinins 381:223
Tachypnoea 372:1; 386:231
Taenia coli 371:119; 380:165
Taurine 385:51
– efflux, cerebellar cortex 372:203
TEA 374:289
Techniques 387:67
–, measurement of inert gases 375:161
–, pipettes 376:191
Telemetric measurement of heart rate 372:95
Teleost fish 377:101
Temperature 373:189; 374:159; 377:119; 378:31; 386:135; 388:79
– acclimation 381:113
– changes, hypothalamus 378:227
– compensation 371:257
– dependence of elasticity 378:25
– –, O_2 diffusivity 372:37
– effect 379:173
– – on the oxygen affinity of hemoglobin 383:209
– effects on Na current 382:27
–, environmental 371:257
–, isometric characteristics, muscle 389:149
–, nerve action potential 372:17
– of body 382:225
– regulation 373:59, 259; 377:51, 245; 379:165, 219; 380:215; 382:87, 255; 384:253; 386:173, 181; 387:183; 388:17; 389:171
– -sensitive neuron 380:59
– sensors 374:179
– stimulation 381:47
Tendon organs 374:159
Tenotomy, muscle membrane properties 379:89
Tension 375:141; 390:237
–, Ca^{2+}- and Sr^{2+}-activated 381:53
– development 375:111; 382:133
–, muscle 376:55
– responses, frog sartorius muscle 376:97
– trajectories 372:131
– transient and ^{45}Ca release 388:63
Terbutaline 390:17
Term 379:219
Terminal nephron, rat nephron 371:39
Ternary diffusion 371:227
Testicular hyaluronidase 390:152
Testosterone, anabolic effect 371:3
Tetanic contraction 378:149
– tension 387:33
Tetanized canine tracheal smooth muscle 390:175
– cardiac muscle 373:31
Tetanus/twitch ratios 378:251
Tethered-swimming 385:65
Tetracycline fluorescence 372:259
Tetraethylammonium 386:251; 390:30, 38
– effect 378:111
Tetragastrin 386:127
Tetramer composition, hemoglobins 377:75
Tetrodotoxin 372:43; 379:137; 381:75; 382:43; 383:67; 388:221
– (TTX) 374:167; 386:281
Thalamic stimulation 374:101
THAM 386:161
Theophylline 371:45; 372:29; 383:35
Theory of maximum likelihood 373:283
Thermal activation of efferents 372:195
– control of blood flow 378:55
– exchanges 382:225
– polypnea 384:143
– reflex 372:195
– stimulation 388:233
– stimulation, hypothalamus 372:157
– stimuli 382:1
Thermally-induced reflex changes in skin blood flow 375:17
Thermodes 374:179
Thermogenesis 373:189; 382:225; 385:193; 389:237; 390:224
– of fat cells 381:113
Thermolysis 382:225
Thermoreceptors 390:219
–, gastric 384:65
Thermoregulation 372:157; 373:189; 374:47; 375:17; 378:55; 379:113, 219; 380:59, 227; 381:35; 384:261; 387:183; 389:297; 390:86, 219
Thermoregulatory functions 386:181
– heat production 385:25
– response 377:51; 379:165
– system 372:195
Thermosensitive neuron 389:297
Thermosensitivity 374:159, 179; 379:291; 386:181
–, central 373:259
–, hypothalamus 373:59
– in the preoptic/anterior hypothalamic area 379:113
Thermosensors 380:203
Thermostasis 384:65
Thiamin intestinal transport 376:47
– phosphorylation-dephosphorylation coupling 376:47
Thick ascending limb 374:255; 390:38
– – – of Henle's loop 389:263; 390:30
– slurry bevelling 381:287
Thin layer photometry 372:279
Thiopental 372:285
Thiosulphate 383:159
– transport 387:127
Thixotropy 390:113
THO transfer, placenta 371:251
Thoracic cord 388:233
– duct flow 378:121
– – lymph 378:127
– –, – flow 371:25
Thoracotomy 373:49
Threshold amplitude of tilt 385:95
Threshold body core temperature 373:259
Thromboxane A_2 374:15
Thyroglobin distribution 372:145
Thyroglobulin 372:145
Thyroid follicles 372:145
– gland 384:116
– –, heat exposure 375:177
– hormone 385:91
– – binding activity 375:177
– secretion rate 389:195
– state 386:47
– status 389:195
Thyroparahydroidectomy 380:47
Thyroparathyroidectomized rats 374:249; 386:59
Thyroparathyroidectomy 374:153; 379:37; 384:105; 388:185
Thyrotropin releasing hormone (TRH) 385:79
Thyroxine 372:23
Tidal volume 374:39
– volume (V_T) 379:53
Tilt 385:95
Tilting 373:161
Tilts, responses of neurons 381:179
Time constant 378:1
– –, A-V node 371:135
– -dependent 381:271
– – currents 387:217
– -independent currents 387:207

Tip potential 378:107
Tissue accumulation method 389:155
– compliance 387:239
– fluorescence and reflectance 385:167
– metabolites 374:9
– oxygen pressure 372:175
– – tension 373:195
– – transport 376:209
– PCO_2 381:289
– P_{o_2} 383:29
– P_{o_2}, relative 383:105
Titratable acid 374:249; 377:229
Toad skin 385:181; 390:299
– –, aldosterone 383:151
– – epithelium 385:1
Tolerance of respiratory loads 378:65
Tongue 382:255
– blood flow 387:161; 388:17
Tonic contraction 375:69
– neck position 374:107
– phase of contraction 390:237
Tonicity changes 390:70
Torpedo electric organ 377:117
Total body water 385:71
– CO_2 reabsorption 389:45
Trace metal changes 389:175
"Tracer" brand of microspheres 379:295
– dilution 390:80
Tracheal smooth muscle 390:175
Training 381:19
–, intensive 375:147
Transaminases 374:9
Transcapillary exchange 382:137
– protein escape 378:127
– protein movement 371:25
Transcellular glucose transport 388:29
Transepithelial 383:55
– electrical potential difference 378:71
– – – – (PD) 390:38
– Na transport 374:235
– NaCl and water movement 378:15
– potential difference 383:55, 215
– salt transport 371:109
– sodium transport 383:151
– specific 390:30
– – resistance (R_T) 390:38
– transport 379:229; 381:217, 223
Transfer function measurements 390:290
– functions 388:111
Transient hypoxia 379:53
– outward current 390:102
Transintestinal glucose and sodium transport 390:202
Transmembrane Na gradient 386:35; 389:189
– potential 381:171
Transmitter identification 379:149
– release 385:45
– – in a high K^+ solution 386:29
Transmural electrical conductance 379:1
Transplacental filtration 371:251
Transplanted kidneys 378:223
Transport kinetics 382:115; 389:137
– of electrolytes into serosal compartment 385:143
– of inorganic phosphate 382:123; 385:189
– pool 374:235
–, retrograde 375:289
Transretinal potential 375:53, 61
Transtubular electrical potential difference (PDt) 374:255
– permeability of raffinose 383:165
– potential difference 373:125
Transverse tubules 390:250
Tree shrew *(Tupaia chinensis)* 373:199
Tremor, muscle 381:47
Triamcinolone 385:147
2,4,6-triaminopyrimidine (TAP) 379:287
Trifluoperazine 387:115
Trigeminal afferents 389:143
Triglyceride metabolism 377:251
– synthesis in adipose tissue 379:187
Triglycerides 377:251
Triiodothyronine on renal growth 390:186
– (T_3) 390:73, 120
Triiodthyronine 372:23
Tris-hydroxymethyl-aminomethane 390:30, 38
Triton-X-100 383:131; 390:120, 198
Troponin 384:219
Tryptaminergic neurones 377:109
TSH secretion 375:177
Tubular compliance 382:179
– diameter 382:179
– effects of prostaglandins 373:125
– electrolytes 377:95
– electrolytes electrolytes 377:95
– extrusion of d-glucose 388:29
– fluid 377:95; 384:39
– – dilution 379:11
– handling of phosphate 388:185
– heterogeneity 372:269
– leakage 372:251
– membrane of frog twitch muscle fibre 374:167
– phosphate reabsorption 379:37
– PO_4 transport 372:269
– pressure 371:235; 389:251
– protein uptake 375:269
– reabsorption 371:235
– – of disaccharides 371:141
– – of fluid 389:131
– – of l-proline 387:253
– solute and water absorption 378:37
– transport 375:9; 384:39
– – processes 384:116
Tubuloglomerular balance 382:217
– feedback 373:69; 375:105, 261; 379:11, 269; 380:233
– – adaption 387:39
– – control 386:11
Tumour tissue 372:37; 373:145
Turnover of norepinephrine and dopamine 380:127
Twitch 384:123
– muscle 374:167; 375:207
– – fibre 374:167; 379:117; 382:27
– relaxation 379:259
– tension 372:285; 387:33
Tyramine 379:245
Tyrode solution 383:143

U

Ulnar nerve 374:107
Ultrafilterable magnesium 377:95
Ultrafiltration dynamics 389:85
Unclipping of renal hypertensive rats 380:133
Undecapeptides 381:223
Uneven ventilation 372:1; 386:231
Unidirectional fluxes, PO_4 371:39
– influx of phosphate across mucosal membrane 385:117
Unilateral nephrectomy 385:161
– vestibular stimulation 380:79
Uninephrectomised rats 379:245
Unmyelinated axons 386:21
Unstirred water layers 389:155
Upper caudal spinal cord 381:201
Upstroke configuration 380:139
Uptake of Na^+ 385:243
– of sugars 384:279
Urate excretion 383:203
Urea 383:165; 384:99; 390:299
– facilitated transport 384:155
– handling 390:131
– infusion 390:131
– permeability 382:7
– synthesis 372:275
Urecholine 383:19
Uremia, arginine metabolism 372:275
Ureteral ligation 381:165
– stop flow pressure 389:251
Urethane 383:249
Urinary acidification 381:107
– – defect 381:137
– and testicular hyaluronidase 390:152
– bladder 379:287; 388:217
– –, necturus 371:87
– concentrating mechanism 379:11
– inulin recovery 372:251
– nitrogen excretion 374:3
Urine-blood pCO_2 gradient 381:137
– excretion 382:217
– flow 374:23; 385:111
– osmolality 378:213
– volume 390:44, 125
Uterine relaxation, (uterine diastole) 377:225
Uteroplacental arteries 377:225
UTP 390:5

V

Vagal blockade 381:293
– cold-block 381:1
– efferents 387:55, 99
– feedback 381:1
– fibres 386:231
– lung deflation 372:1
– mechanoreceptors 373:25
– nerve stimulation 376:139
– neurones 380:245
– representation 375:119
Vagally mediated facilitation 390:63
Vagotomy 374:187, 205; 379:53
Vagus cardioinhibitory fibers 379:281
– nerve 377:43, 57; 380:203; 381:1; 389:181
Valinomycin 378:87
Vas deferens 372:63
Vasa recta 373:229
Vascular conductance 377:225
– cuff occluder 380:99
– diameter 372:109
– diameter measurement 386:93
– dimensions 376:263
– impedance 384:177
– resistance 373:49; 378:135; 385:203
– smooth muscle 372:23; 378:25, 31, 111; 381:63; 382:81; 385:239; 387:17; 389:189; 390:107, 113
– tone 374:187

Vasoactive agents 374:73
– drugs 375:25
– intestinal peptide 389:21, 29; 390:10
– – – VIP 376:73
Vasoconstriction 376:177
Vasoconstrictor neurones 371:217
– response, hepatic artery 378:135
Vasodilatation 376:177; 386:173; 387:183
Vasodilation 373:211
–, pial vessels 373:195
–, renal 374:105
Vasodilatory mechanisms in the tongue and nose 387:161
Vasomotion, venous 377:177
Vasomotor adjustments 382:255
– neuron activity 387:189
– reaction 382:171
Vasopressin 374:229; 383:151; 390:260
– antiserum 373:167
–, liberation 371:193
– -mediated blood pressure response 373:167
– release 388:177
– secretion 376:185
–, water and NaCl transport 383:215
Vasopressor mechanism 390:260
Vegetative nerves stimulation 382:171
Veins, grafts into arteries 384:177
Velocity detector 375:167
Vena cava infusion 374:23
– portae infusion 374:23
Venomotor tone 383:79
Venous constriction in response to cooling 383:79
– diameter 377:177
– grafts 384:177
– haematocrit, spleen 388:37
– occlusion 382:241
– pressure 381:25; 383:79
– – elevation 388:37
Ventilation 374:205; 384:267
–, control of 379:181; 383:9
– -perfusion ratio 388:197
–, uneven 372:1; 386:231
Ventilatory controlling system 375:1
– – – for CO_2 378:85
– CO_2 response 390:56
– CO_2 responsiveness 390:63
– CO_2-response 378:85
– response 379:53; 381:1
– -sensitivity 390:63
Ventral *medulla oblongata* 379:125; 387:189; 388:53
– medullary surface 378:231
– surface of the brainstem 375:289
Ventricle 372:53
Ventricular cerebrospinal fluid 374:101
– force-velocity relations 379:251
– function 380:259
– model 379:251
– muscle 374:79; 377:119
– –, passive electrical properties 378:1
– myocardium 381:171
– myoglobin concentration 385:155
– papillary muscles 380:29
– systolic stiffness 374:135
– weight 385:155
Ventromedial hypothalamic lesions 390:1
Veratridine 372:53; 375:197
– -evoked GABA release 379:149
Vermis 375:119
Vertical anterior semicircular canal 372:139
– posterior canal 372:139
– vestibuloocular reflex 382:51
Vesicles from brush borders 380:47
Vessel diameters 376:263
– elasticity 380:221
Vestibular efferents 388:123
– input 380:79
– inputs to fastigial nucleus 384:193
– nerve 388:123
– neurones 386:221
– nuclei 371:155
– nucleus neurons 384:19, 31
– system 385:123; 388:111
– –, *rana esculenta* 372:139
Vestibuloocular reflex 382:51
Vibration of the homonymous muscles 385:263
Vibrotactile stimuli 384:167
Vicinal hydroxyl groups 378:167
Video-angiometer 376:263
Videomicroscopy 382:137
Vinblastine 385:79
Viscera, distension of 373:25
Visceral afferents 375:125
– nerve 380:283
Viscoelastic behaviour of arteries in vivo 380:221
Viscometer 373:39
Viscosity 383:229; 390:238, 278
– of blood 380:1
– of blood, flowing through small glass capillaries 383:229
– of red cell suspension 373:39
Viscous forces 380:221
– stress 380:221
Vision research 383:173
Visual cortex 389:159
– evoked potentials 376:81; 382:279
– generator potential 372:165
– pattern 384:31
– perception 386:141
– system 375:251; 376:81; 377:15, 201
– vestibular convergence 386:221
Visualization of cell to cell coupling 380:277
Vitamin B_{12} clearance 383:71
– D 381:217; 389:69
– D-replete (I D) chicks 381:217
Voltage clamp 372:43; 374:79, 289; 375:75, 219; 377:193; 379:117, 137; 382:17, 27; 386:101; 387:207, 217; 388:255; 390:102, 207, 230, 237, 288
– –, atrium 372:121
– – pacemaker current 375:45
– –, Purkinje fibres 371:71
– – technique 379:157; 387:133
– clamped frog atrial fibres 379:259
– – – – muscle 375:69
– – Purkinje fibres 384:207
– dependence, inhibitory synaptic current 371:167
– pulses 377:235
– sensitive channels 390:296
Volume expansion 373:139, 249
– reabsorption 389:121
– receptors 376:185
– regulation 381:143; 390:125

W

Wakefulness 388:143, 149
Waking and sleeping 382:225
Wall shear stress 373:39
Warm-detectors 389:297
Wash out kinetics 374:235
– – rates of XE-133 liver 384:75
Water absorption 388:165
– balance 374:23
– – 'goat' 383:241
– – of pigeons 384:253
– bicarbonate and protein secretion 383:19
– clearance by the kidney 383:241
– diuresis 374:229; 376:67
– exchange 372:115
– excretion 382:217
– flux 389:45
– homeostatis 390:125
– immersion 383:189
– intake 385:211
– -loading in the rat 390:152
– metabolism 373:99
– permeability 373:105; 383:131, 215
– – of the descending 382:7
– – (osmotic) 382:7
– –, renal papilla 373:99
– reabsorption, jejunum 373:249
– rejection, renal 372:215
– -salt homeostasis 390:270
– turnover 385:71
Weak electrolyte transport 388:205
Wedge cuvette 372:279
Weight – lifting program 385:147
"Window" sodium current 379:137
Within-breath changes, WBC 389:243
Women, athletes and non athletes 371:161
Working muscle 387:231

X

^{133}Xe clearance curves 386:277
^{133}Xe washout 390:169
^{133}Xenon injection technique 378:189
Xenon radioisotopes 384:75
– wash out 376:41
X-ray microanalysis 373:85
Xylitol 376:223
Xylose 376:223

Z

Zinc, in plasma 389:175